

Volume LI, Number 1

First Quarter 1995

# BORDERLANDS

*A Quarterly Journal of Borderland Research*

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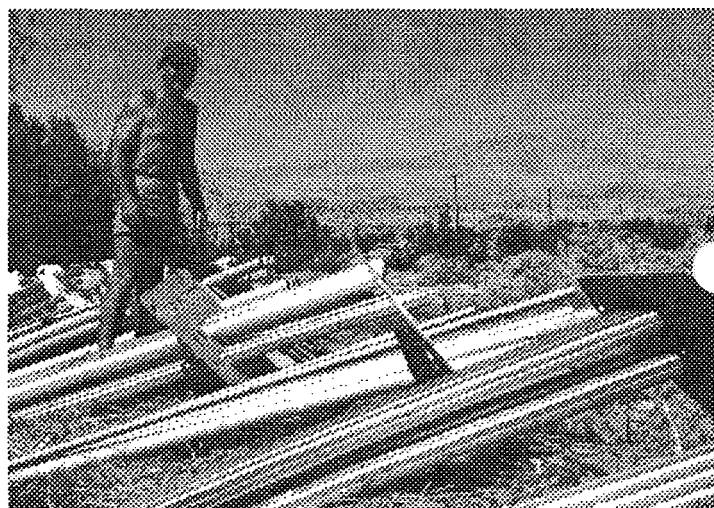
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**MAGINOT LINE WEST**

Trevor Constable with an array of rack mounted, water based weather engineering units in the early 1970's. This is just one of the many dozens of descriptive photos of actual etheric weather engineering projects shown in **LOOM OF THE FUTURE**.



# BORDERLANDS

## *THE CROSSROADS OF SCIENCE AND SPIRIT*

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Thomas Joseph Brown  
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Michael Theroux  
**Editor/Design**

Borderland Sciences Research Foundation was founded by Meade Layne in 1945 for the purpose of investigating into realms normally beyond the range of basic human perception and physical measurement.

BORDERLANDS originated as Meade Layne's **Round Robin** in 1945 and was changed to **The Journal of Borderland Research** in 1959, finally becoming BORDERLANDS in 1992. BORDERLANDS is an information nexus for thinkers and doers on the frontiers of science and awareness.

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Alison Davidson  
Vincent Gaddis  
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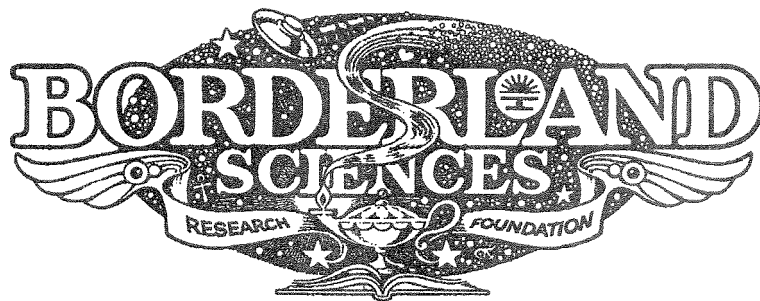
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## BORDERLANDS

*A Quarterly Journal of Borderland Research*  
Volume LI, Number 1, First Quarter 1995

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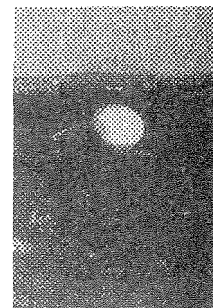
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## On the cover

Photo of "critter" taken at Cluj, Romania by biologist Al Sift. This photo was sent to us by Florin Georghita who is referred to several times in Trevor James Constable's book, **The Cosmic Pulse of Life**. His own book, published in Romania, is entitled, **The Strange Invisible Intelligences**, and is illustrated with 100s of photos of these "invisible beings".





# View from the Borderlands

**T**HIS ISSUE of BORDERLANDS is the 50th anniversary issue of what began as Meade Layne's "Round Robin" in February 1945. Initiated as a small newsletter amongst friends and correspondents, the seed Meade planted has continued on for a full half century to the magazine you hold in your hands today. Meade ran the Borderlands until 1959 when Riley Crabb took over. Riley's 25 years of service to Borderlands were documented in the Riley Crabb Memorial Issue, Second Quarter 1994.

Many authors and ideas have crossed these pages over the years. Vincent H. Gaddis (who is still with us 50 years later!), Max Freedom Long, Dr. Nandor Fodor, Harold T. Wilkins, Gerald Light, Mark Gallert, Louis T. Culling, Dr. Franklin Merrill-Wolff, John A. Hilliard, Mark Probert, Edward S. Schultz, Carl Frederick Krafft, Trevor James Constable, Rev. Verne Cameron, and many, many more intelligent and curious folk interacted during the Meade Layne years.

All manner of ideas have been probed over the years. What is important are not the diverse forms of investigation, but that the borders of our awareness were probed. The methods of borderland research will always progress, as life must progress to survive. And when we realize that Life, that all-important element, curiously absent from modern science, is the primary function of our planetary surface, then we will realize the error of basing world views on measurements of inert matter.

As editor I have produced 50 issues of this magazine, this being my 51st regular issue, starting in January 1986, so I have completed 9 years at the helm. It is time for a metamorphosis in my life, and as change is the only sure thing in this universe I'm taking this opportunity to announce a major transformation here at Borderland Sciences.

Michael Theroux, will be taking on day to day responsibility for BSRF as the new corporate director, and will act as the "voice" of Borderlands magazine. I will remain as editor in chief, though more in the background. Borderland's main focus will be this magazine, whilst still maintaining an active publishing arm. BSRF's new address is P.O. Box 220, Bayside, California, 95524. Authors and correspondents should direct their mail to Michael Theroux c/o this address. I am requesting that Borderlanders throw their full support behind Michael as he takes on an arduous task.

Michael is eager to make BORDERLANDS

magazine and Borderland books more widely available, and it will take a continuous flow of resources to accomplish this. You all should buy and read more BSRF books, extend your subscriptions, get your friends to subscribe, donate some spare money, in these ways you can be of immense help, and be an integral factor in the continued growth of our foundation.

While I am stepping down from the corporate board I am looking at this as a promotion! I will still be working directly with BSRF from behind the scenes to organize new information and publications. I have many articles and research projects that have been put on hold over the years as I've dealt with the business end of things here. The plan is that this change will allow me to present more articles on diverse aspects of this curious universe we find ourselves a part of.

But let's get on to important matters. This issue of BORDERLANDS has many interesting articles,

Jorge Resines takes us on a borderland voyage to **Unknown Italy** where petrified people and mediaeval sputniks lay hidden in the woodwork. Weird but true.

**The Mars-Redhead Connection** by Judith Hill is a scientific approach to the verification of astrological science. Astrology is persistently vilified in the regular press, but here is some hard data for the old school to choke down. The documented fact that the planet Mars appears in the astrological charts of red-headed people in certain positions is amazing and verifies an old adage about Mars ruling redheads. But all this is not so astounding to those familiar with the Kolisko/Kollerstrom metal-planet experiments which we have published on in the past, this is just the normal energetic pattern of the living universe.

In **Scorpionic America** David Solté gives us some eye-opening insights into the true nature of the so-called "land of the free", the USA. A mixture of historical and astrological research provides much food for thought, especially for those who have followed the alleged "secret destiny of America" concepts based on the fictitious July 4, 1776 birthday of the U.S.A. Great stuff, hope it awakens you to discover what manner of beast we face.

Gerry Vassilatos's curious series of articles continues with **Eidetic Space—The Ground of Being**. While Gerry's articles may seem difficult to fathom at first, those who work through and grasp what he is saying will

recognize that he is one of the great borderland thinkers of our time. Many loose ends of scientific research and philosophy that have been swept under the rug by the advance of modern atomic theory are brought to the fore for those who want to think and know the truth. Not that you will agree with Gerry, that is not necessary, or perhaps even possible within the framework of your present thinking. What is necessary is that you think about these ideas. That is what Borderlands has always been about.

**The Nature of the Etheric Worlds** by N. Meade Layne is being run to give you a flavor of where Meade was coming from in those ancient days of Borderland Sciences. I hope that someday we can run a more comprehensive overview of Meade's work as it covered a wide intellectual span.

Goethean scientist Dennis Kloczek provides some important ideas on **The Alchemy of Capacitance**. The true nature of weak electrical fields and their importance to life is explored in a stimulating manner. Dennis is an astute borderland thinker and his writings add much to our understandings.

The redoubtable Peter Lindemann continues his controversial and popular **Fizix Korner** series with some important thoughts on the nature of electrical loads. His research indicates that a load does not consume electricity! If this is true we may be able to engineer "free energy". I'm not a believer in free energy, I am a believer in Peter's astute thought processes. If all the curiosities of "free energy" machines were organized we would have a new science of electricity ... and then we may be able to engineer some advanced energy-producing technologies.

One of my favorite authors, Nikola Tesla chimes in with **On the Dissipation of the Electrical Energy of the Hertz Resonator**. A curious historical view based on certain experiments, not earth-shattering, but very interesting.

Don't believe anything written herein. This is research, and the forum for thinkers and doers. If you agree or don't agree then write a letter. BORDERLANDS continues today as your nexus for information other sources are incapable of comprehending. If you want fantastic, amazing and farout thinking based on both subjective and objective research, and to be part of our continuous endeavor to reach for new modes of understanding, then stick with us for our second half century!

Thomas J. Brown



## Clips, Quotes, & Comments

### From our readers

You have a great magazine. I often go back and reread previous articles, and pick up things I missed or just plain did not understand on the second and even third reading.

— *John Montgomery, Palm Desert, California*

The new **Borderlands** is fantastic. I'm no engineer or scientist but read everything anyway. It's the best of many magazines I take. Congratulations, well done.

— *Emil F. Jettmar, Adelphi, Maryland*

You're looking good **Borderlands**! Keep up the innovative contributions. Your progressive stretching offers a breath of fresh air.

— *Steven Patascher, Scottsdale, Arizona*

Thanks for a truly wonderful magazine.

— *Jeff Sorenson, Des Moines, Iowa*

### The Five Rites

Thank you for rapidly expediting my order of **The Eye of Revelation**, the tape about the Rites, and the vitic rods. They have been of benefit to me daily since I received them. I am curious, however, about the differences in the depictions of the rites in the book and those shown on the tape.

In the book, for Rite number two, the head is shown raised up and in towards the chest. In another source available to me the chin is depicted as firmly placed against the chest. The tape demonstrated no movement of the head in this posture. Also, although both book and tape showed the lifting of the buttocks, the book gave no such instruction. My alternative source did not picture this lifting of the derriere, either. The models on tape pointed their toes differently, as well, one flexing toes toward the body, the other extending them away from the body.

For Rite number three, instruction is given for resting the head on the chest, but there is no depiction of it. The tape clearly showed inclination of head to chest.

Rite number four in both book and tape shows placement of the hands with the fingers alongside of the hips and the base of the palms just behind the fingers. I have found in my practice that placing the base of the palms

alongside of the hips and rounding the shoulders in the first position is more comfortable. The artist must have goofed when creating the drawing of the second position because the fingers are shown reversed.

Rite number five is consistent in both book and tape, but a variation of it in another source depicts the feet as being flat on the floor in the second position. However, only the tape shows a starting position of being face down and flat on the floor.

Having practiced yoga for 18 years, I understand that body placement is all important when doing exercises. Moving a body part, flexing or extending digits or limbs, and how one breathes all make considerable differences as far as stimulating glands, improving bodily functions, or avoiding strain or pain are concerned. How important are these differences in the practice of the Five Rites? Is there a "correct" way to perform them?

When I incorporated the Rites into my life as a daily practice, I instinctively paused between the performance of each one to breathe deeply. I do not find it necessary to stand up to do so, but do make sure that I am comfortably positioned to open up my chest to allow a maximum of air to be breathed in. This is most beneficial. As a variation of Rite six, instead of placing hands on hips and pushing up the shoulders, I interlace my fingers and raise them palm up towards the ceiling, arms straight and parallel to my ears. This more powerfully pulls up the concavity in the abdomen.

I would appreciate any thoughts you may have on the Rites and a source of more information about them. Yoga has a plethora of material concerning the practice over several millennia. It seems odd to me that the Rites do not have a similar amount of information about their history and routine in light of their alleged antiquity. Any information which you can share with me will be most humbly and gratefully received.

— *Helen Kopp, Grafton, Ohio*

*Your input shows that there are many variations in the Five Rites. We suggest that you do what works best for you, but most importantly — DO THEM!*

# STRANGE MAGAZINE

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Wilhelm Reich  
Nikola Tesla  
Jack Parsons  
Jacques Bergler

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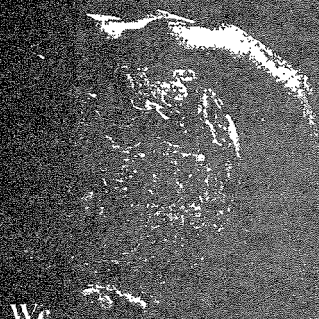


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## BORDERLANDS CQC

### Interesting Facts

Perhaps a few comments and insights concerning certain books in the Borderlands catalogue might be of interest to your readers.

In Ed McCabe's **Oxygen Therapies** a chart of food vitality is given on page 198. He thanks the unknown author. I can reveal that this chart is an abbreviated version of the one given in 1949 by André Simoneton in his book **Food Radiations**. The chart was the fruit of 30 years pioneering research and was a revelation to me when I first came across it. Eating only food of high radiation seems to have worked for Mr. Simoneton. I spoke to him in the 60s when he was 88 years old and he appeared to be in good health.

I now find, with the growth of the food industry that a lot of produce on sale has hardly any energy at all. In other words, since André Simoneton wrote his book, the life-sustaining quality of food has steadily declined. No wonder more and more people are getting cancer. If I were asked to name the chief cause of illness in Europe I would definitely say the food industry. The judge who condemned the chemist Lavoisier to the guillotine is said to have remarked "the country does not need scientists." He certainly did not realize how true that statement was.

**The Mystery of the Cathedrals** by Fulcanelli — who was Fulcanelli? This has given rise to endless speculation but he was probably an engineer working for the gas company. The people who knew — Julien Champagne who illustrated the 1st edition and Canseliet, his disciple, are now deceased. However, we have one witness who throws some light on the matter — Jacques Bergier. He studied atomic energy with Helbronner at a time when hardly anyone was interested in the subject in France. There was, however, a course of "nuclear chemistry" (as it was then called) at the Sorbonne in 1932, one of the first in the world. But it lead to no diploma or certificate and most of the Sorbonne professors thought it was a bad joke. (It should be noted, in passing, that the Sorbonne was an extraordinary place in those days. Bergier speaks of an in-depth course in astronomy, which anyone could follow but Roumanian girls alone could obtain the diploma. If you were not a girl, and Roumanian to boot, you had no hope of passing the exam.) However, Bergier followed this "nuclear chemistry" course and much later, in 1938, Helbronner invited him to meet an alchemist. They went to a gas works in the Paris suburbs, where a

man introduced himself as Fulcanelli. He warned Bergier and Helbronner that their research was very dangerous because it could lead to the atomic bomb. He added that the alchemists had known about this for a long-time. Bergier forgot all about this warning but was brutally reminded when the first atomic bomb fell on Hiroshima. He then tried to locate Fulcanelli but the latter had disappeared. He wasn't the only one looking. The CIA was also anxious to get their hands on him but they never succeeded. Sadly, Helbronner and Bergier have both gone to the great beyond. Helbronner was sent to a concentration camp and never returned; Bergier survived the camps, although he was more dead than alive and lived on till the 70s.

**The Cosmic Pulse of Life** makes mention of "...biological UFOs of monstrous size" (page 97). This brought back to a conversation I had with a Tibetan lama. He said that there were huge dragons in the sky over Tibet. I wondered, at the time, why foreign observers had never seen them but Trevor's explanations make this clear. What is certain is that the Tibetans have known of biological UFOs for hundreds of years.

On the persecution of Ruth Drown — I find this quite natural. Anyone who poses a threat to vested interests or established thought will be persecuted. Suppose I found a simple device which would instantly cure all disease. Would I be hailed as a saviour of mankind? On the contrary, my device would be labelled dangerous or useless by all kinds of medical authorities and I would soon be victim of a fatal accident. I make these remarks because I have read so often of inventors who are astonished to be persecuted. On the contrary, I contend that they should be absolutely astounded if they are not persecuted. Even harmless inventors are in trouble. About 2 years ago, the Franco-German TV channel "Arte" showed a documentary about a German, living in Switzerland, who had found a way of purifying lakes and ponds. He tried his invention out on Lac Lemman and the Swiss Authorities thanked him by throwing him out of the country. Society has got itself into such a mess that it is virtually impossible to improve anything without treading on somebody's toes.

— Ron Crossley, Poillé, France

Keep those letters and clippings coming! Please write to **Borderlands CQC**, P.O. Box 220, Bayside, California, 95524 USA. Letters may be edited for length and clarity.

## MONSTER FIND

AP - Murmansk

The carcass of a huge, unidentified sea animal has reportedly washed ashore near Cape Nemetsky after a storm in the Russian Arctic. Tsar-Tass news agency said the body, about 12m long and 1.5m wide, was covered in either feathers or wool and "outwardly resembles a dinosaur."

*New Zealand Herald, Oct 27, 1994*

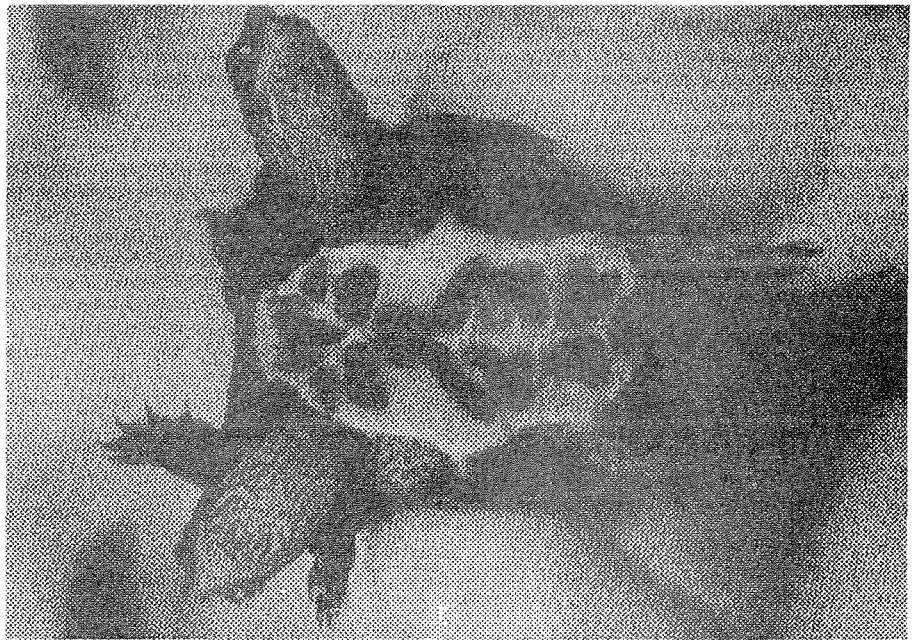
## CHINA STAGES YETI HUNT

Beijing - AAP

Chinese scientists will launch a major search early next year for the abominable snowman after three giant hairy humanoids were sighted in a remote mountainous region in central China. The sighting was witnessed by 10 engineers on a trip in western Hubei province.

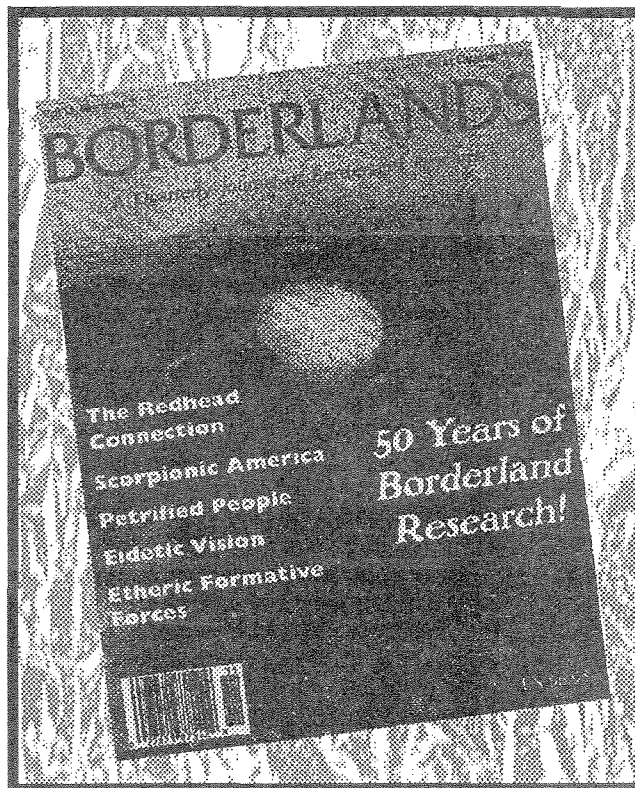
Scientists from the Chinese Academy of Sciences are so confident the creatures will prove to be the legendary abominable snowman, yeti or Big Foot that they set up the Committee for the Search of Rare and Strange Creatures last week to try and flush the shy ape men from their mountain retreat.

*Greymouth (NZ) Evening Star, Nov 7, 1994*



State of nature... a warped baby turtle with three heads and six legs is displayed at an exhibition for unusual animals in a Taipei department store. The third head of the six-centimeter turtle, which is five months old, has retreated inside the shell.

*From the South China Morning Post — October 8 - 9, 1994.*



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# UNKNOWN ITALY



by Jorge Resines

**W**HILE the country of reference is known due to its wines, tame weather and neo-realistic cinema, there are, nevertheless, other phenomena that to us Borderlanders are far more interesting. Two said events will be examined in this article, to wit:

## I

The Chapel of Sansevero (also called "Temple of Mercy") at Naples was symbolically laid one day in 1590 when the guards of the noble family Di Sangro were carrying a political foe to the cellars of the castle. Suddenly, a portion of the wall next to the group fell to the ground, displaying an image of the Virgin Mary for everyone to behold.

Believing this to be a miraculous appearance, the guards and prisoner fell on their knees and the political foe made a promise that if he was ever released without suffering pain, he would dedicate a marble slab to the Virgin, to be placed under the site of the apparition.

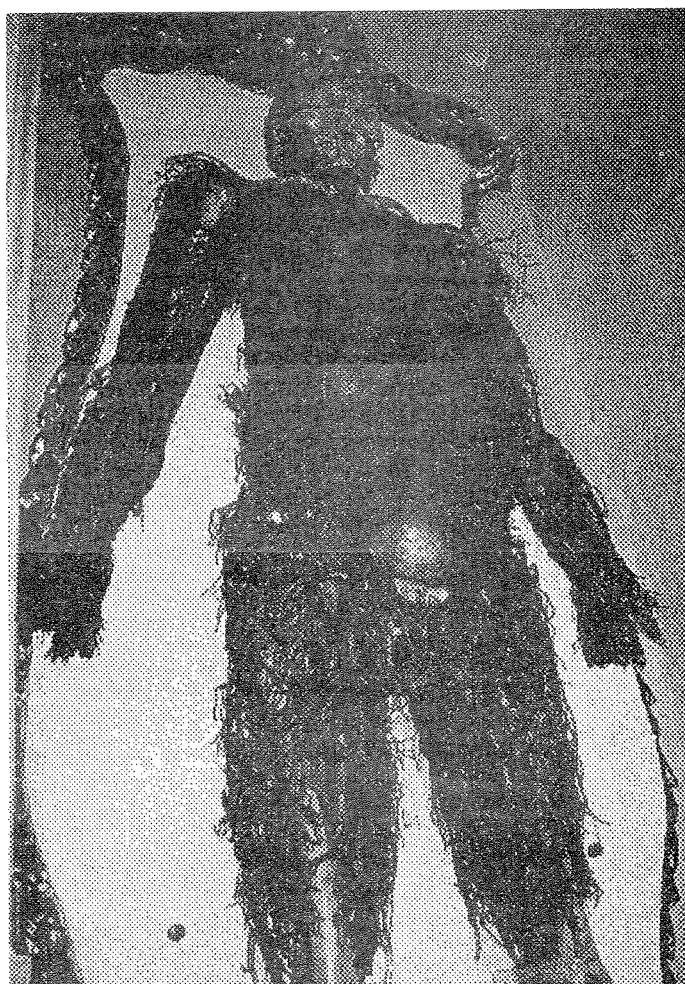
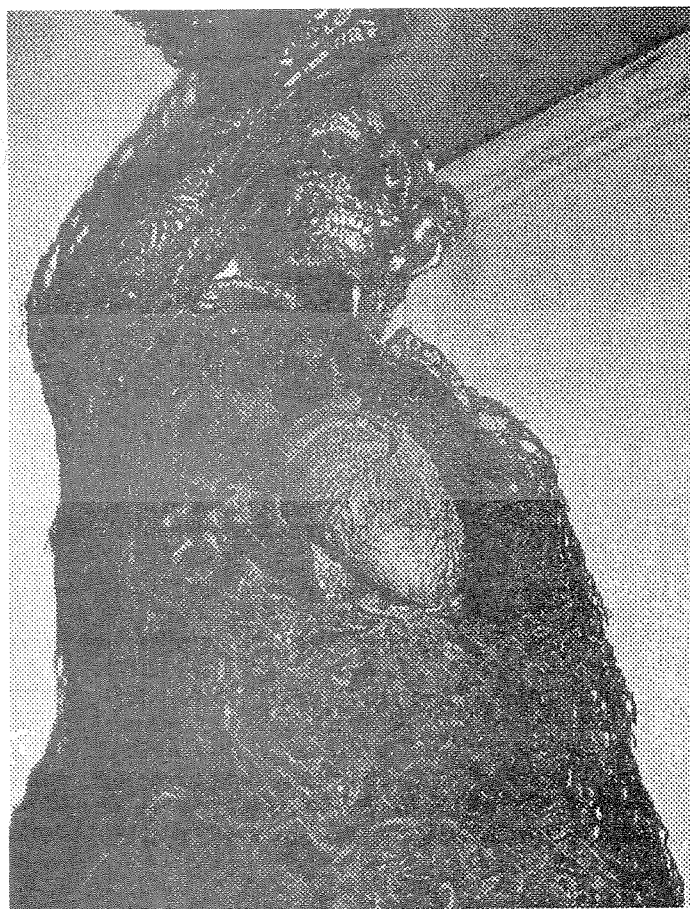
As this did happen (in my opinion due to the impression cast on the noblemen), the slab was placed where promised.

The place soon became popular for pilgrimaging Napolitans who went there to say their devotions to the Virgin.

The Chapel was duly built and improved upon as the years went by, both by the Di Sangro family and anyone else they allowed. This went on until the XVIIIth century when Prince Raimondo Di Sangro — an Alchemist and Mason belonging to the order called "Hiram's Avengers" — began to carry out his own improvements which included a labyrinth covering the floor of the church (nowadays lost and replaced by one of swastikas — (a design that comes from at least Roman times) imitating the classical designs in the main Gothic European Cathedrals.

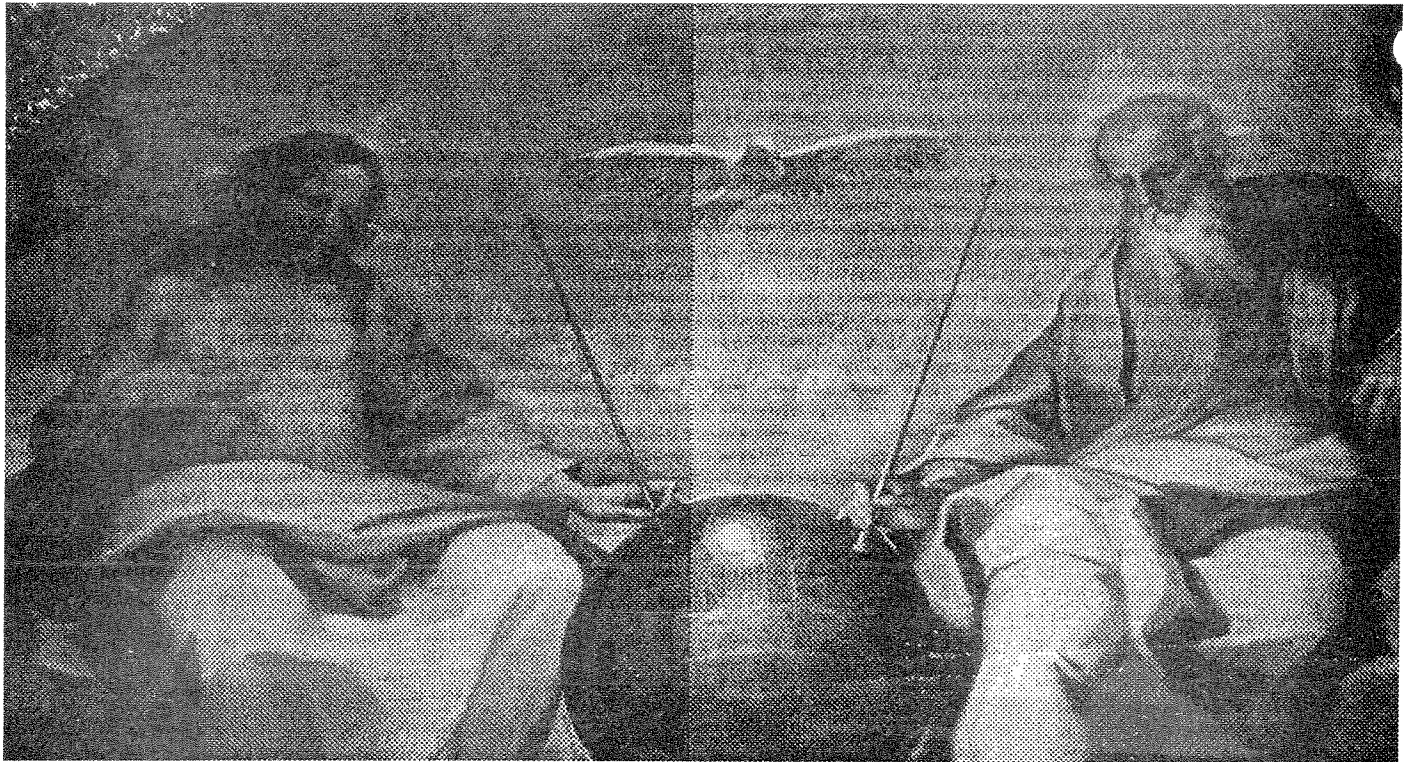
So far, so good — the church would not merit more than a passing look for us Borderlanders, but hold on readers, the best is here:

In 1894 the Di Sangro family undertook the restoration of the Chapel and opened up a cellar that, until then, had been closed. Inside were found two bodies that had petrified



pic 1-3 A macabre experiment? The bodies of a pregnant woman and a large man, their skeletal and circulatory systems mysteriously petrified into a labyrinth of veins and arteries provide a unique lesson in anatomy. The lidless eyes dilated in gruesome death stare with a stony gaze at the visitors to this unusual Italian mausoleum.





Close-up of the painting on the wall in the church of St Peter, Montalcino, Italy, painted by the artist Ventura Salimbeni (1567-1613) in the year 1600 AD. Note the similarity to the satellite picture below.

skeletons, and also petrified—INTACT AND WHOLE — were the human circulatory systems! The three photographs presented in this article will give you a pale reflection of what the skeletons actually look like (the original photos are in color, and therefore more impressive). The two skeletons belong to a large man (minus his feet) and a pregnant woman, both unidentified.

The news of this discovery was leaked to the world in 1894 by a Neapolitan reporter Mr. Fabio Colonna di Stigliano who was trusted by the Di Sangro family with the scoop, and as the years went by the place became open to the public. So, if you ever get close to Naples — and want to see something interesting - don't miss the Di Sangro chapel.

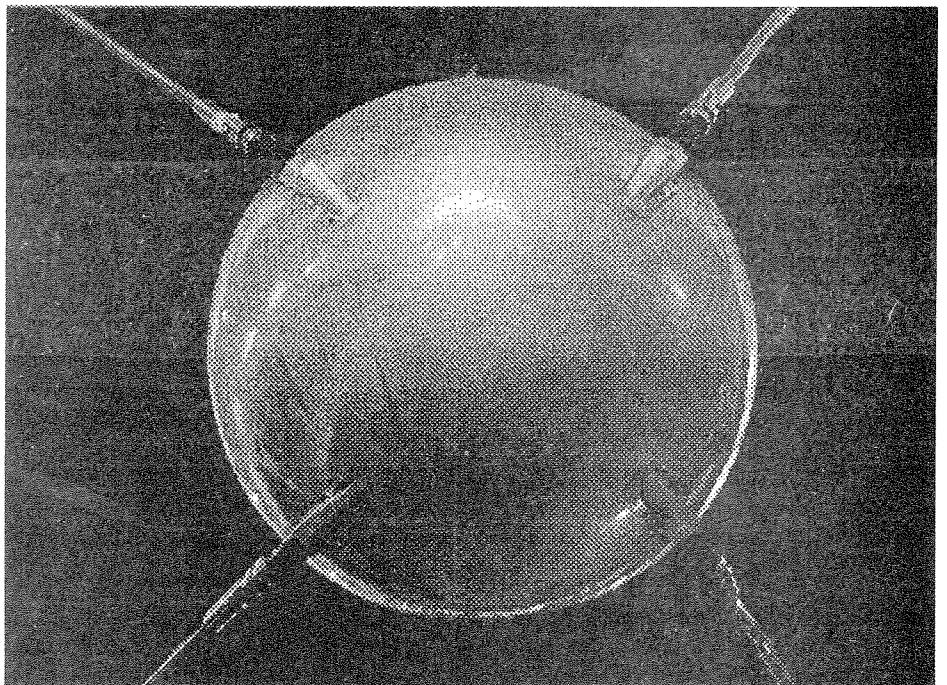


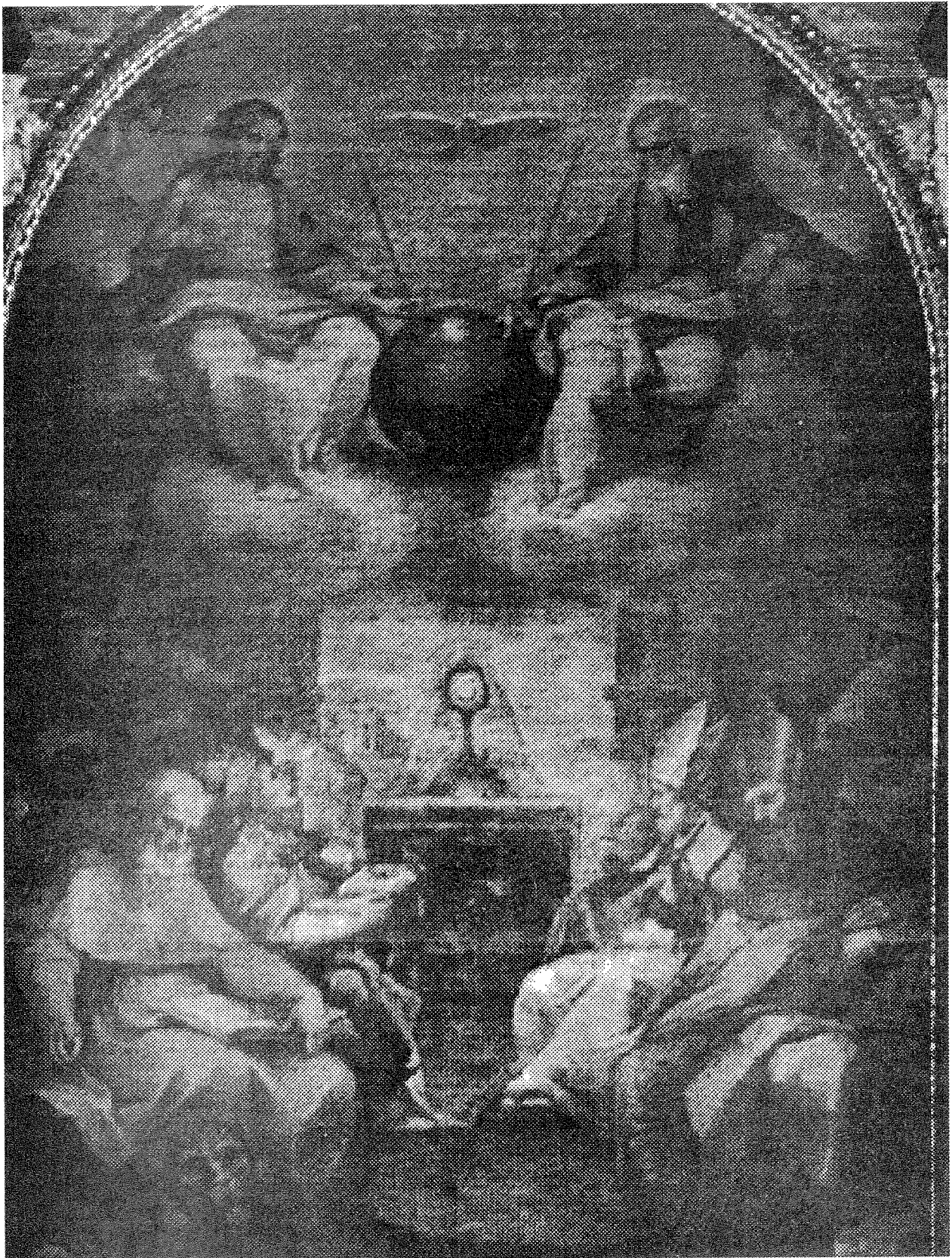
Photo of the modern satellite Vanguard II

## II

Did Pope Clemens VIII know about space travel, spaceships and artificial satellites? If so, what was his source? These two questions are not idle dreaming or mere nonsense. In the church of St Peter

in the town of Montalcino, 40 kilometers (25 miles) from the city of Siena, is a picture on the wall painted by the artist





Are Jesus and St. Peter communicating with the faithful by satellite - in 1600AD? The sphere they are so intent on, painted in a church in Montalcino, Italy, shows an amazing similarity to the modern satellite Vanguard II.

Ventura Salimbeni (1567-1613) in the year 1600 AD. A small reproduction of the picture accompanies this text and there you will notice a group of characters sitting below; the second one from the left wearing the Papal Crown (called "tiara" in Italian) is the aforementioned Pope.

But if you look at the top of the picture you will notice another two characters; on the left is Christ and on the right, St. Peter. Each is holding a thin scepter whose lower end is affixed to what (in the original picture, in color) looks like a metallic sphere.

An enlargement of the pertinent portion, included in this article, shows the metallic sphere as very close in appearance to satellite Vanguard II (whose picture is also included).

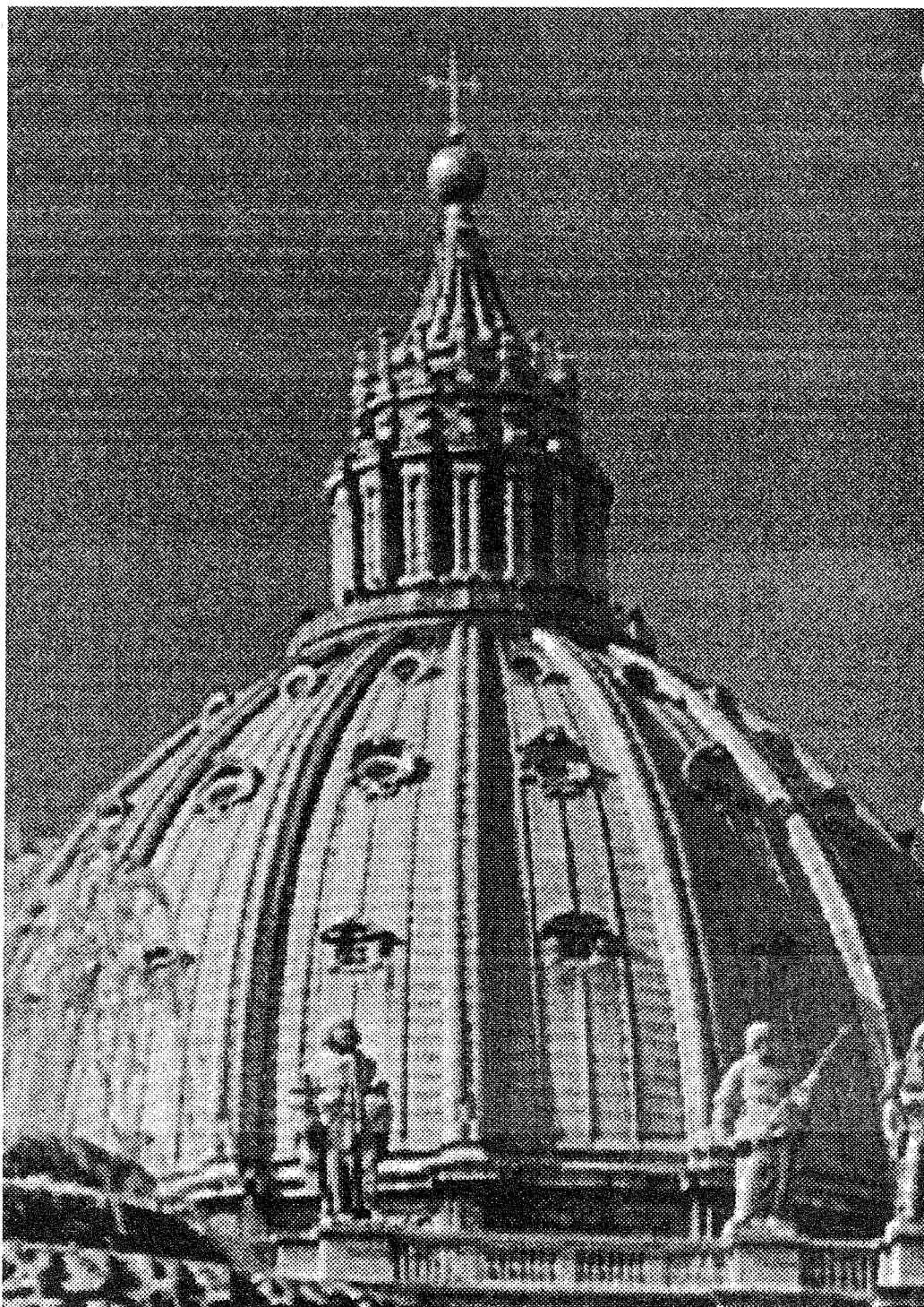
I am not making either a mistake in assessment or exaggerating; in the original the sphere whose "antennae" are held by Christ and St. Peter looks like the aforementioned device.

Did Clemens VIII receive information from aliens related to the Vatican, or had he another source of knowledge equal to ours today (at least)?

The answer is difficult, for there is another element to bring into the picture: At the top of St. Peter's church in the Vatican there is a large metallic sphere holding a massive metallic cross on top. It is hollow and 16 people can enter and sit comfortably inside...

For mediumistic sessions perhaps? This sphere was also related to Pope Clemens VIII as he ordered it built and placed where it rests today.

Did the sphere serve as a psychotronic amplifier to "tune into" higher levels of knowledge?



Another huge metallic sphere from the time of Pope Clemens VIII sits atop St. Peter's church in the Vatican. Is this some kind of psychotronic device for tuning into other realms? The Vatican remains silent.

If so, from where did Clemens VIII get the instructions and blueprints to have it built? As the Vatican is not talking, the answers are not forthcoming; anyone having another piece of the puzzle is invited to write to "Borderlands" submitting his, her contribution. ■

# THE MARS-REDHEAD LINK II:

## Mars Distribution Patterns in Redhead Populations

by  
Judith A. Hill

### Introduction

The red planet Mars has been associated with redheaded people from the earliest times. The Mars distribution curve through the circle of diurnal motion\* for redheads at birth has been the topic of international debate and inquiry since the publication of Hill and Thompson's *The Mars-Redhead Link: A Scientific Test of Astrological Tradition*. In 1987-88 researchers Judith A. Hill and Jacalyn Thompson, members of the San Francisco National Council for Geocosmic Research (NCGR), conducted an experiment testing the validity of the astrological tradition that Mars "rules" red hair. They hypothesized that Mars' association with red hair would result in Mars being prominent (in some way) in the birth charts of naturally redheaded persons. Hill and Thompson compared Mars distributions at birth for 500 redheads within the circle of diurnal motion against four control groups: 1) 24,961 "ordinary people" developed by Francoise and Michel Gauquelin. 2) 500 non-redheaded Caucasians (of similar demography to the redhead group), by Jacalyn Thompson. 3) 449 random birth charts from **Astrology as Science: A Statistical Approach** by Mark Urbain Lurain. 4) 485 birth charts from **The American Book of Charts** by Lois Rodden.

Would the traditional "redhead's planet" Mars be more prominent in the birth charts of redheaded people (as a group) than non-redheaded people? Since there are several astrological conditions qualifying Mars as "prominent", Hill and Thompson of necessity limited themselves to only one of several methods for determining Mars strength or weakness. A "Strong Zone" for Mars distribution in redheads was hypothesized to be located within 30° on either side of the Ascendant. (Fig 1). Conversely, a "Weak Zone" for Mars distribution in redheads was hypothesized as within 30° on either side of the Descendant — exactly opposite the Strong Zone. (Figure 1). They arrived at their method by viewing results of an initial pilot study of 100 redheads.

Hill presented this pilot study before the San Francisco NCGR on March 1, 1987. She discussed the overall distribution of Mars for 100 redheads through the circle of diurnal motion, commenting on the curious peaks in equal houses 1, 2, 1, 8, 9, and lows in equal houses 2, 4, 6, 7, 10. Hill and Thompson completed their collection goal of 500 "redhead" birth charts on July 27, 1987, and arranged for the statistical testing of their two previously notarized hypotheses. The results obtained were impressive. Mars was more likely to tenant the hypothetical "Strong Zone" at birth for redheads than

for non-redheads, and less likely to tenant the "Weak Zone". The statistical possibility of this occurring by chance was less than one-in-one-million (for Strong Zone distribution) and less than one-in-three-hundred and fifty thousand for Weak Zone distribution. Consistency of results was maintained even when dividing the redhead sample into five groups of 100 each, or by gender. These results were documented in *The Mars-Redhead Link: A Scientific Test of Astrological Tradition* by Judith A. Hill and Jacalyn Thompson. Hill and Thompson's results were retested by British researcher Mike O'Neill B.Sc<sup>5</sup> under the direction of Beverly Steffett Ph.D. who represented a neutral testing ground available to critics of the study. The positive results were found by O'Neill not to be caused by any of the "astronomical factors" proposed by critics of the study, e.g. the "nycthemeral expectancy", random variation, or lack of a time-switched control.<sup>5</sup>

To date, a total of six redhead samples (plus two additional large independently collected subsamples of the largest new sample, R2) have been collected. Excluding R3, all new samples have been collected by parties other than Hill and Thompson. In fact, the recently unearthed John Addey redhead collection notes (R4) were collected two decades prior to Hill and Thompson's work and were not viewed by Hill and Thompson until after they had completed "The Mars-Redhead Link" report.<sup>7</sup>

My comparison of these total eight redhead samples, and all new findings are explicated in two sections. Each section serves to answer one of the following two questions pivotal to this study.

### 1) Section A

Do the positive results for Hill and Thompson's Strong/Weak Zone double hypothesis for Mars distribution in 500 redheads (R1) replicate in the new redhead samples? And if so, to what degree?

### 2) Section B

Is there a distinct "redhead curve" for Mars distribution at birth consistent to redhead samples and not occurring in random populations of equal or greater size?

### THE DATA

#### Individual Redhead Samples:

**R1, R2, R3, R4, R5, R6, R6A, R2A, R2B**

#### Large Combined Redhead Groups:

**A, B, C, D, E**

#### Large Controls: C1, C2, C3.

#### Small Controls: C4, C5, C6, C7, C8.

\* As the earth turns on its axis each day, Mars (or any other planet) appear to circle any "stationary" point on earth. This trajectory of planetary motion from the geo-centric viewpoint is known as the "circle of diurnal motion"; and its various divisions become the variety of astrological house systems.



## REDHEAD SAMPLES

### R1: Total 500 Hill and Thompson American Redheads

A group of natural redheads collected in 1986-87. The collection methodology is amply detailed in *The Mars-Redhead Link*,<sup>4</sup> NCGR Journal, Winter 88-89. This data was inspected by NCGR Research Director J. Lee Lehman, Ph.D. prior to publication acceptance. Post-publication analysis and retesting of data was conducted by Mike O'Neill B.Sc. and Beverly Steffert Ph.D.

### R2: Total 374 American Replication Project Redheads

Twenty-three volunteers of Oregon and Washington states collected this sample under the direction of Judith A. Hill (Redheads Research) in 1991. Data collectors signed oaths committing themselves to accurate data representation of natural redheads. Data cards include: birth data, data source, gender, birth circumstance (i.e. natural, c-section or induced), right/left handedness and hair tone: bright red, orange, auburn or strawberry blonde. The data collectors submitted their data to Redheads Research in sealed envelopes. These data envelopes were opened on October 2, 1991 by Judith A. Hill before two signed witnesses. Robert Wambach, Ph.D. initialled each data point as Hill assigned a number. Susan Payton, then current board member of the Oregon Astrological Association, observed this process. All signed and numbered data

points were mailed as raw data to neutral party Mike O'Neill B.Sc. for computer entry and initial statistical testing. Signed statements from both witnesses accompany the data.

### R3: Total 74 Hill and Thompson Strawberry Blondes

A "curio" sample collected in 1988 by Hill and Thompson. Data was submitted by mail in response to ads; and by street collection via data cards. Photocopies of raw data were mailed to Beverly Steffert Ph.D. and Mike O'Neill B.Sc. for first computer entry and first observation of results.

## THE REDHEADS

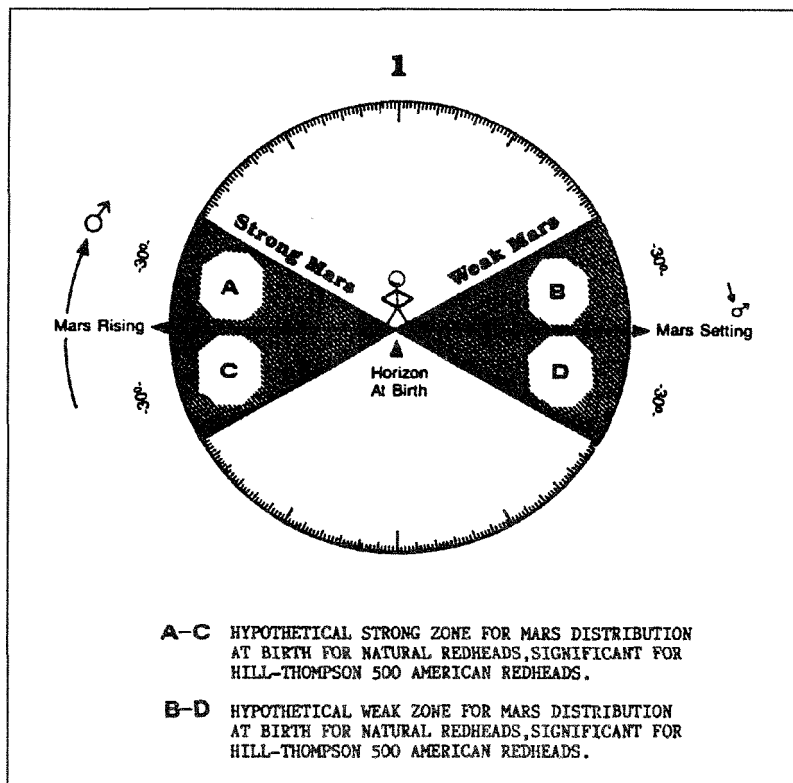
### R4: Total 100 John Addey British Redheads

Mars arc to the ascending degree for 100 redheaded persons obtained from photocopies of the 1967 redhead collection notes of

John Addey, graciously provided to Redheads Research by Charles Harvey. The demographics and collection methodology remain unknown, although it is assumed that this sample is largely of British origin.

### R5: Total 29 Ron Bippus Canadian Redheads

This group of largely "bright" redheaded Canadian females was collected in 1988-89. Ron Bippus' collection methodology was to walk up to redheaded strangers on the street, strike up a conversation and hopefully obtain their birth data. This tiny sample represents the only submitted collection of natural Canadian redheads. Ron Bippus was familiar with the Hill-Thompson hypotheses but unaware of Hill's proposed Mars distribution curve for redheads. Ron is a member of the NCGR, and has a working knowledge of astrology.



### R6: Total 353 Mike O'Neill B. Sc. and Beverly Steffert Ph.D. Scottish and English Redheads

O'Neill and Steffert collected this sample in 1991 from radio announcement call-ins and street collection from cards designed as psychological questionnaires. O'Neill and Steffert were familiar with both the Hill and Thompson hypotheses and Hill's proposed "red-head curve"; and possess a working knowledge of astrology.

### R6A:

A subsample of R6 consisting of 117 eminent redheads obtained from a book. I do not have the half-zone distribution to-

als for this subsample and therefore have not included it in Table 1. Note: Mars percentage totals by equal house are presented here for this group with the permission of Mike O'Neill B.Sc. on a highly provisional basis only.

### Redhead Subsets of R2

Two data collectors from The American Redheads Replication Project succeeded in independently collecting large samples. It is therefore prudent to include for analysis these groups as samples in their own right.

### R2A: Total 76 J. Mennona Redheads

This group was exclusively street collected by approaching strangers with cards designed by Redheads Research (see R2). Mennona cannot calculate charts and is not a member of NCGR. She was

familiar with the Hill and Thompson hypotheses but unaware of Hill's proposed "redhead curve" for Mars distribution in redhead populations.

## R2B: Total 95 Sethyn Bryan American Redheads

This group was exclusively street collected — largely from health clubs; using cards supplied by Redheads Research. Bryan can calculate charts and is not a member of NCGR. She was unfamiliar with the Hill and Thompson hypotheses and did not know of Hill's proposed Mars distribution curve for redheads.

## LARGE COMBINED REDHEAD GROUPS

These five large redhead samples are created for statistical analysis of the Strong Zone/Weak Zone hypothesis. These groups are derived by the construction of two categories of reference:

- 1) Inclusive/Non-inclusive of the Hill-Thompson 500 redheads (R1).
- 2) Collection locus: American-Canadian vs. British-Scottish.

**A:** Total Redhead Samples (R1-R6). T 1430 data points.

**B:** Total Redhead Samples Sans R1 (R2-R6). T 930

**C:** Total American-Canadian Samples (R1, R2, R3, R5). T977

**D:** Total Am-Can Samples Sans R1. (R2, R3, R5) T477

**E:** Total British-Scottish Samples (R4, R6). T 453

## CONTROL GROUPS

For comparison purposes it is essential to provide several appropriate control populations. The control groups below are divided into "Large Controls" and "Small Controls" The large controls provide mean distributions for Mars within the diurnal circle. The small controls establish actual curve patterns and random variations possible for Mars distribution in groups of 100-500 random births — the general range of the redhead samples. Large Controls C1, C2, C3. and Small Controls C4, C5, C6 were developed by Mark Pottenger for comparison with R2, the American Replication Project redheads. However, the Large Controls provide expected frequencies for all redhead groups, and the Small Controls provide useful comparative material for all American redheads.

## LARGE CONTROLS

### C1: Astronomical Years 1911-1991:

The basic astronomical distribution by zodiacal angle from the Ascendant at 43 N (mean lat. for R2) to Mars, measuring once every four minutes for all years included in R2, R2A and R2B. This base line does not include demographic corrections and provides a pure view of the natural Asc-Mars pattern. This group was selected for use as a baseline for most

graphics used in this article. However, the similar results for all three Large Controls permit their interchangeable use as base lines from which to establish expected frequencies.

### C2: Gauquelin Heredity:

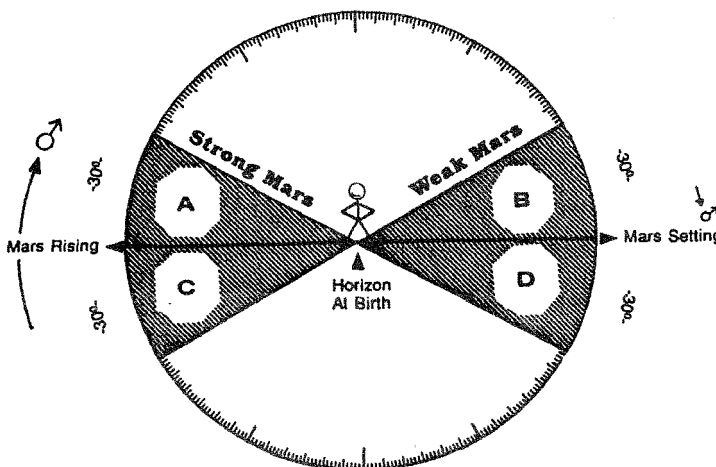
This group, developed by Michel and Francois Gauquelin provides equal house distributions for Mars at birth for 24,949 "ordinary people" of assumed French birth between years 1850-1945.

### C3: Total 7480 time-switched controls:

Mark Pottenger created this group by time-switching 374 redhead birth charts (R2), 20 times. The demography of this group is identical with R2.

### The R2 Result (Z-Values).

The "American Replication Project data (R2) is the only new redhead data to be collected without any direct collection or computer entry by the project director; and therefore is the individual redhead sample least likely to contain potentially collector-biased data. Table 1 compares R2 with four time-switched controls (C3,C4,C5,C6) for Mars distribution percentage at birth within half-zones of the hypothetical "Strong" and "Weak Zones" for redhead Mars placement. (See Table 1). Results for half-zone significance tests are displayed below.



**A-C** HYPOTHETICAL STRONG ZONE FOR MARS DISTRIBUTION AT BIRTH FOR NATURAL REDHEADS, SIGNIFICANT FOR HILL-THOMPSON 500 AMERICAN REDHEADS. (R1).

**B-D** HYPOTHETICAL WEAK ZONE FOR MARS DISTRIBUTION AT BIRTH FOR NATURAL REDHEADS, SIGNIFICANT FOR HILL-THOMPSON 500 AMERICAN REDHEADS. (R1).

**A** RETAINED STRONG ZONE FOR R2 (374 American Replication Project Redheads). Significant at:  $Z=1.869517447375$

**B** RETAINED WEAK ZONE FOR R2 (374 American Replication Project Redheads). Significant at  $Z=1.78729923922$

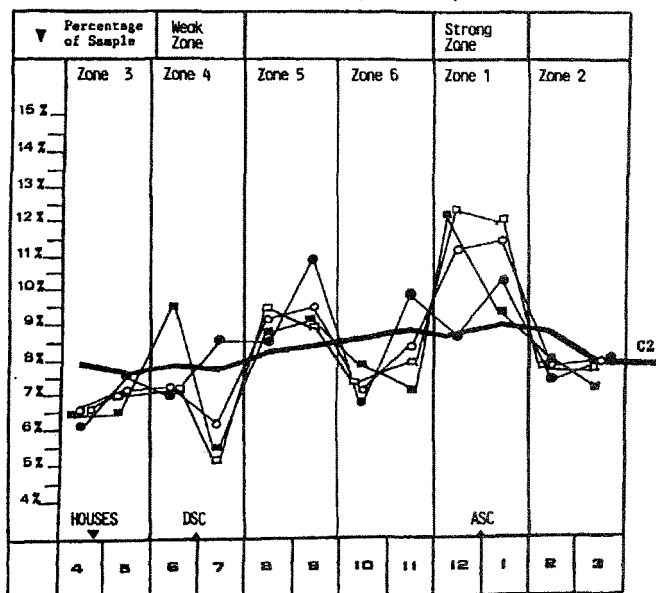
**C** AVERAGE DISTRIBUTION (High end)  $Z=0.2454015503298$

**D** SIGNIFICANT IN REVERSE OF HYPOTHESIS.  $Z=2.19934040127$

\*A-C remains significant for total new Am/Cn reds (R2+R3+R5), and for total world reds (R1-R6). A-C is not significant for total British redheads (R4+R6).

Figure 2: Mars Distribution at Birth by Equal House in Redhead Populations

- Total Redhead Groups (R1, R2, R3, R4, R5, R6) T1430
- Total American-Canadian Redheads (R1, R2, R3, R5) T930
- Total Am/Ch Redheads sons R1 (Hill-Thompson redheads) T477
- Total British Isles Redheads (R4 Adey, R6 O'Neill, Steffert) T453



## Section A

### Statistical Results for the Strong and Weak Zones

#### Z-scores

Statistical analysis by Chi Square and Z-scores have been conducted for redhead groups A, B, C, D, E by Mark Pottenger using Microsoft Excel 5.0 for Windows. The ideal control values for these groups would be those established from time-switched controls for each group of experimental data (ABCDE). These ideal controls have not been possible to obtain as yet, because redhead groups R3, R5 and R6 are not in my possession (on disk) and remain with the British research team. Therefore all experimental data (ABCDE) will be tested three times using expected values from the three previously described large controls (C1, C2, C3). This methodology provides three comparative probability values for each one of the five experimental data sets. Tables 2 and 3 display Z-score probability values for the Strong and Weak Zones and also for their half-zones (equal houses 12, 1 and 6, 7). Table 3. The probability values for the Chi Square test for the Strong/Weak Zones are shown in Table 4.

Z-scores are values that have been normalized for normal distribution with a standard deviation of 1. The first set of Z-scores in the table fits the definition exactly by using the mean and standard deviations of the experimental data itself. The following three sets of probabilities are calculated for the Z-scores of the five experimental data groups (ABCDE) consequently for each of

#### SMALL CONTROLS

**C4: Total:** 374 redhead data points (R2) shifted forward by 100 data points and birth times switched.

**C5: Total:** 374 redhead data points (R2) shifted forward by 200 data points and birth times switched.

**C6: Total:** 374 redhead data points (R2) shifted forward by 300 data points and birth times switched.

#### C7: Total 500 non-redheaded Caucasians:

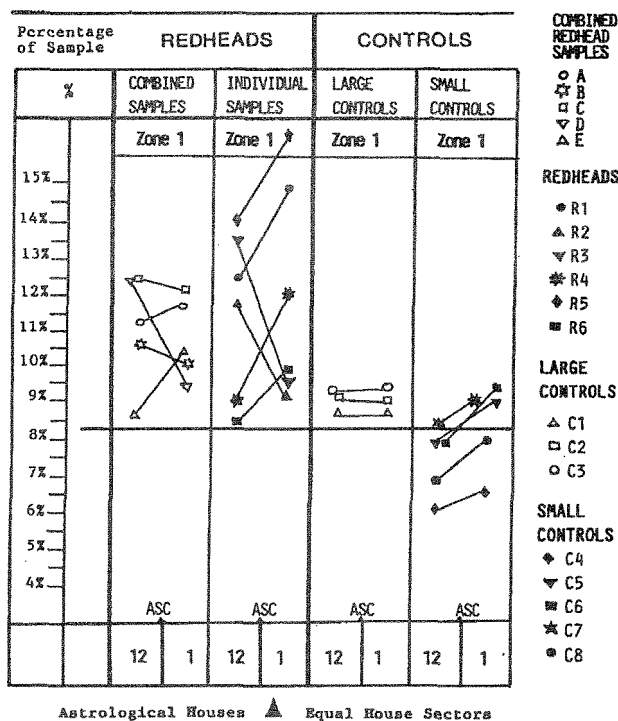
This group, collected by Jacalyn Thompson in 1987-88 provides the only extant purely non-redheaded control group of similar size to R1, R2, R6. It is important to note that all "random" European and American control populations do contain some percentage of redheaded people (5% is average for American groups and as high as 20% for some localities within the British Isles!)\*, in addition to an unknown percentage of people from racial groups for whom red hair is an impossibility. Thompson's control sample is therefore of considerable relevance to this study.

#### C8: Total 100 random births:

This group represents the first 100 data points (of this century) found "randomly" in Lois Rodden's American Book of Charts.<sup>7</sup> Birth years range from 1900-1977, concentrating in the first three decades. Data includes an eclectic mix of notables and ordinary people, with no doubt a few redheads. This group supplies us with a typical "random" Mars distribution within the diurnal circle for a group of 100 random births — useful for comparison with R3, R4, R2A and R2B.

Figure 3: STRONG ZONE DISTRIBUTION OF MARS  
REDHEADS vs CONTROLS

Mars distribution by percentage of sample within 30° of the ASC (Rising Point) at birth, i.e. astrological equal house sectors 12 and 1.





three control expected values (a legitimate procedure). The control groups (C1, C2, C3) are listed in Table 2 in this order and manner: "Shift Std Dev" for C3; "Gauq. Std. Dev." for C2; and "Ast. Std. Dev." for C1. You can see a steady increase in significance values from C3 to C1. Perhaps the best control for American redheads C and D is C3, with C1 doubling for D. Possibly the Gauquelin control (C2) is best for redhead groups E and A. It is not possible in a paper of this size to discuss such a multiplicity of test results in more than a general way, and much is left to the reader's observation. Those not familiar with probability tables should take note that statistical significance is considered to exist from  $P = .05$  (one chance in twenty.)

#### Strong Zone Results for Redheads A B C D (Z-scores) TABLE 2, Fig. 4

Moderate to very high levels of statistical significance are achieved for Mars distribution in the Strong Zone for all redhead groups except E. This combined British replication group displays nonsignificance when calculated using its own mean and standard deviation, and a weak significance using C2 ("Gauq Std Dev") for expected values. Total 1430 redheads (A) are highly significant at 4.888E-06 (lowest of three probability values using control expected frequencies). Redhead groups B, C and D all display high statistical significance when probability is calculated from Z-scores using controls for expected values.

#### A Closer Look: The half-zones of the Strong Zone TABLE 3, Fig 4

Bisecting the Strong Zone produces two half-zones: the equal 12th and 1st astrological houses (30° each).

**12th house:** Redhead groups ABCD all display weak to very high levels of statistical significance for Mars distribution at birth within the equal 12th house. The British group E shows no significance.

**1st house** Statistical significance is achieved by all redhead groups (ABCDE) when calculated using control expected values.

#### Weak Zone Results for Redheads A B C D E (Z-scores) TABLE 2, Fig. 4B, 4C

A wide range of probability values are obtained and the collective picture for redheads is not as consistent as is apparent for the Strong Zone. Redhead groups A and C produce weak to very high probability values when calculated using the control expected values. Groups B and D show a weak significance only when calculated with C1 for expected values. British redheads (E) show no significance in any test.

#### Closer Look: The Half-Zones of the Weak Zone TABLE 3, Fig 4B, 4C

Bisecting the Weak Zone produces two half-zones: the equal 6th and 7th astrological houses (30° each).

**6th house:** Mars distributions within this house display a variety of weak to nonsignificant probability values for groups ABCDE. The highest levels of statistical significance are achieved here by redhead groups A, D and E when using the control expected values.

**7th house:** With the one exception of redhead group E, all experimental data groups (ABCD) produce moderate to highly significant results with Z-scores calculated using the control expected values.

#### Chi Square: The Strong/Weak Zones TABLE 4

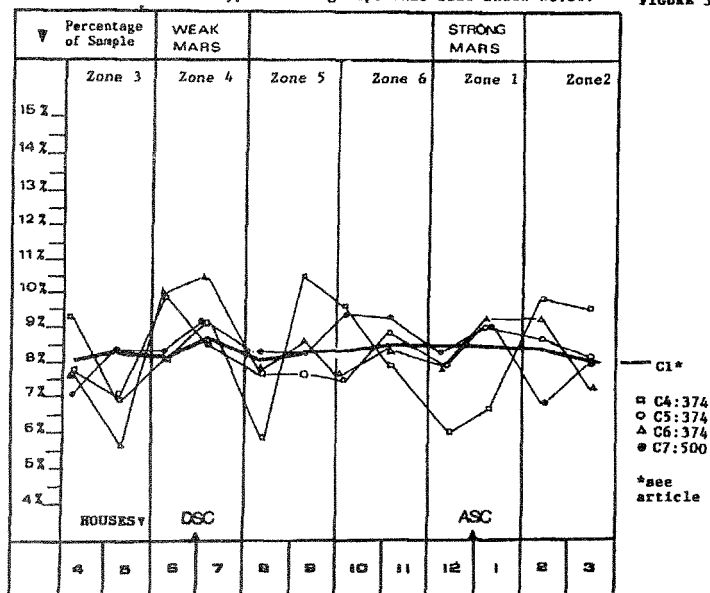
Although Chi Square is not the best test choice for assessing the probability of specific zone distributions, results for Chi square are included here for the sake of thoroughness. Total 1430 redheads (A) are significant at  $P = .0000214$  (P vs C3);  $P = .0000027$  (P vs C2); and  $P = .00000002$  (P vs C1). Redhead group C is also highly significant with all three tests. Redhead group B shows significance using control C1 only; whereas the Am/Can replication data (D) is significant for tests "P vs C1" and "P vs C1". British replication data (E) shows no significance for any of the three tests.

#### Discussion

A consistent trend of higher (than expected) Mars distribution within the hypothetical Strong Zone at birth in redheads is seen throughout the individual redhead groups displayed in Table 1. Each group produces at least one half-zone of the Strong Zone in the excess of all control totals; while simultaneously showing at least one half-zone of the Weak Zone below totals for all controls. It is this simultaneous factor that is responsible for the high zone

SMALL CONTROL GROUPS (Random populations): Mars distribution at birth for control groups of similar size and demography as redhead groups R1:500 and R2:374. Zone preference, curve patterns and random variations typical for groups this size shown below.

FIGURE 3B



**TABLE 1: ZONE VARIATION PERCENTAGES: Redheads vs Controls**

The percentage of Mars distribution at birth in Zone 1 (Strong Zone) is compared with Zone 4 (Weak Zone) by equal house sectors (half-zones) within these zones. Redhead groups (R) are compared with Control Groups (C). Column "A": Total Zone Variation  
Column "B": Greatest variation between a sector (half-zone) of Zone 1 over a sector of Zone 4.

REDHEADS	ZONE		ZONE		"A"	"B"
	12th	1st	6th	7th		
Houses	sectors	sectors	sectors	sectors		
R1 500	12.4	14.8	5.0	4.6	10.2	17.6
R2 374	11.8	9.1	10.6	5.6	6.2	4.7
R3 74	13.5	9.4	6.7	4.0	9.5	12.2
R4 100	9.0	12.0	7.0	7.0	5.0	7.0
R5 29	17.2	13.7	3.4	10.3	13.8	17.2
R6 353	8.4	9.9	7.0	9.0	2.9	2.3
R2A 76	11.8	17.1	3.9	3.9	13.2	21.1
R2B 95	9.4	9.4	15.7	2.1	7.3	1.0
RTotal:1430	11.2	11.5	7.2	6.2	5.3	9.3
LARGE CONTROLS						
C1	8.6	8.6	8.0	8.0	0.6	1.2
C2	9.1	8.0	7.7	7.7	1.4	1.7
C3	9.2	9.3	7.7	7.7	1.6	3.1
SMALL CONTROLS						
C4 374	6.1	6.6	8.2	9.0	---	----
C5 374	8.2	9.0	9.0	8.5	0.5	----
C6 374	8.0	9.0	9.8	10.4	---	----
C7 500	8.4	9.0	8.2	9.0	0.8	----
C8 100	7.0	8.0	10.0	5.0	3.0	----

variations shown for redheads (in comparison to controls), Table 1, Columns "A" and "B", and Figures 1, 1B, 3, 4, 4B.

Although individual redhead groups R1-6 demonstrate widely varying significance for the Strong and Weak Zones (and sometimes none at all); their consistency of Mars distribution trend in the right direction of the Hill/Thompson hypotheses combines to produce high significance levels for the total 1430 redheads (A). Combined large redhead groups B, C and D produce consistent, although widely varying statistical significance by Z-score in the Strong Zone and through exactly half the Weak Zone (the equal 7th house). Combined British replication groups (E), and especially O'Neill and Stefferts' large new British groups (R6) perform quite poorly in comparison with total reds (A), total Am/Can red (C), and total Am/Can replication groups (D). However, the British groups R4 and R6 both remain in the right direction of the hypotheses by producing unusually high Mars distribution totals in the equal 1st house (half-zone of the Strong Zone) while simultaneously showing low distribution totals in the equal 6th (half-zone of the Weak Zone), Tables 1, 2. Therefore, British groups R4 and R6 contribute to the high Strong Zone significance for total redheads (A); plus the significance achieved by total reds in both the equal 1st house (Strong) and equal 6th house (Weak). British groups do not contribute to the high statistical significance shown for total redheads in equal 1st house (Strong) or equal 7th house (Weak).

The Weak Zone (equal houses 6 and 7) is not consistently

Experiments	Strong	Weak
A) Total Redheads	326	192
B) Treds sans Hill-Thom	190	144
C) Total Am-CN Reds	240	121
D) Total Am-Cn sans H-T	104	73
E) Total Brit Reds	86	71
F) Earlier 500	136	48
Standardized Normal	Strong	Weak
A as z-score	1.73041296	-0.91455286
B as z-score	1.54318348	-0.48500052
C as z-score	1.81211989	-0.98238033
D as z-score	1.78164150	-0.47268040
E as z-score	1.06776594	-0.45761397
F as z-score	1.77150529	-1.18847823
A as z with Shift Std.Dev.	4.42223648	-2.33722764
B as z with Shift Std.Dev.	2.71474225	-0.85320471
C as z with Shift Std.Dev.	5.69742587	-3.08866932
D as z with Shift Std.Dev.	3.70502559	-0.98296597
E as z with Shift Std.Dev.	1.67199357	-0.71656867
F as z with Shift Std.Dev.	7.59817574	-5.09751031
A as z with Gauq Std.Dev.	6.06618094	-3.20608042
B as z with Gauq Std.Dev.	3.72393421	-1.17037932
C as z with Gauq Std.Dev.	7.81541566	-4.23686680
D as z with Gauq Std.Dev.	5.08235046	-1.34837869
E as z with Gauq Std.Dev.	2.29354888	-0.98294952
F as z with Gauq Std.Dev.	10.42275986	-6.99248446
A as z with Ast. Std.Dev.	12.01136080	-6.34820970
B as z with Ast. Std.Dev.	7.37358774	-2.31741329
C as z with Ast. Std.Dev.	15.47493855	-8.38922155
D as z with Ast. Std.Dev.	10.06332414	-2.66986151
E as z with Ast. Std.Dev.	4.54134874	-1.94629232
F as z with Ast. Std.Dev.	20.63761870	-13.84549103
Shift 20 sets as z	1.33403969	-0.85507122
Gauq.Hered as z	1.33194889	-1.19842349
Astronomical as z	1.19408263	-1.18290680

**Table 2: Z-scores and Probability Values for redheads ABCDE in the Strong and Weak Zones.**  
Experimental data groups (ABCDE) are tested using the expected values for three controls.

	Sum of z	PROB.	Strong	Weak
	0.00000	Prob of ABS(z):	0.041778222	0.180213181
	0.00000	Prob of ABS(z):	0.061393148	0.313837990
	0.00000	Prob of ABS(z):	0.034983781	0.162956256
	0.00000	Prob of ABS(z):	0.037403806	0.318220616
	0.00000	Prob of ABS(z):	0.142813084	0.323614918
	0.00000	Prob of ABS(z):	0.038238309	0.117322585
A	0.00000	Prob of ABS(z):	4.888E-06	0.009713654
B	0.00000	Prob of ABS(z):	0.003316420	0.196772847
C	0.00000	Prob of ABS(z):	6.099E-09	0.001005344
D	0.00000	Prob of ABS(z):	0.000105715	0.162812092
E	0.00000	Prob of ABS(z):	0.047262771	0.236820066
F	0.00000	Prob of ABS(z):	1.510E-14	1.724E-07
A	0.00000	Prob of ABS(z):	6.574E-10	0.000672846
B	0.00000	Prob of ABS(z):	0.000098100	0.120924234
C	0.00000	Prob of ABS(z):	2.776E-15	0.000011340
D	0.00000	Prob of ABS(z):	1.867E-07	0.088768367
E	0.00000	Prob of ABS(z):	0.010908182	0.162816141
F	0.00000	Prob of ABS(z):	0.000E+00	1.359E-12
A	0.00000	Prob of ABS(z):	0.000E+00	1.094E-10
B	0.00000	Prob of ABS(z):	8.371E-14	0.010240589
C	0.00000	Prob of ABS(z):	0.000E+00	0.000E+00
D	0.00000	Prob of ABS(z):	0.000E+00	0.003794172
E	0.00000	Prob of ABS(z):	2.797E-06	0.025809748
F	0.00000	Prob of ABS(z):	0.000E+00	0.000E+00
	0.00000	Prob of ABS(z):	0.091095487	0.196255810
	0.00000	Prob of ABS(z):	0.091438554	0.115376157
	0.00000	Prob of ABS(z):	0.116222883	0.118423101

significant for all groups and occasionally produces a half-zone result quite in reverse of the hypothesis (Table 1, R2). In defense of the Weak Zone, it should be noted that all American redhead groups (R1, R2, R3, R2A, R2B) show Mars distributions within the equal 7th house to be below those shown for any one of eight controls (with the exception of R2 being lower than seven of eight controls, plus all three R2 precisely time-switched controls - C4, C5, C6, Table 1.) All redhead groups (A B C D E) produce weak to high levels of significance within at least one half-zone of the Weak Zone using Z-scores calculated with control expected values, Table 3. This can be considered a replication by half of the total area designated by Hill-Thompson as the "Weak Zone" for Mars distribution in redheads at birth. American redheads "prefer" to somewhat avoid being born when Mars transits the equal 7th house. British redheads appear to prefer to avoid birth when Mars tenants the equal 6th — with mixed result for the equal 7th.

Statistical significance levels for A B C D E are not as strong as those for the Hill-Thompson data (shown as "F" in Table 2.) However, several individual redhead samples (R2, R3, R4, R5, R2A) achieve individual half-zone scores nearly that of; and in some cases (R2A, R5) exceeding the Hill-Thompson data (Table 1). None of the eight control groups achieve scores as high as most redhead groups do in at least one half-zone of the Strong Zone. Conversely, none of eight controls produces scores as low as every redhead group shows for at least one half-zone of the Weak Zone. We can safely say that individual data collectors, some with no knowledge of the Strong/Weak Zone hypotheses (R2, R4); two who never imputed their own data (R3); or one who neither collected nor input her submitted data (R2); and one who was ignorant of astrological principles (R2A), were proven independently capable of replicating the Hill-Thompson high Mars distribution totals within half-zones of the Strong Zone and low totals within half-zones of the Weak Zone.

## CONCLUSION (Section A)

The total 1430 redheads (A) replicated the Hill and Thompson double hypotheses. Total 977 American-Canadian redheads (C) replicate the Hill and Thompson double hypotheses. Although these two eminently important groups cannot be dismissed, it is obvious that they contain respectively .34 and .51 of R1 data (Hill and Thompson's 500 redheads). So let us segregate the groups containing no Hill-Thompson data (B, D, E): The combined American/Canadian 477 redheads (D) independently replicates the Strong/Weak Zone hypotheses by Chi Square (prob vs C1, and C2), Table 4, and also the Strong Zone hypothesis by Z-score (Table 2); but shows no significance for

the hypothetical Weak Zone (Table 3). However, a half-zone replication occurs for D within the equal 7th house (half-zone of the Weak Zone). The combined British 453 replication redheads (E) produce a weak statistical significance in the Strong Zone for Z-scores (not Chi squares) calculated from control expected values, and no significance for the Weak Zone. This does not mean that E fails to replicate the Mars distribution pattern typical of redhead populations. British redheads (E, Table 2) display a replication of Hill and Thompson's Weak Zone result by exactly half: (the equal 6th house). The British high in the equal 1st house and simultaneous low in the equal 6th indicates a trend in the right direction of the Hill and Thompson hypothesis. Collective Am/Can/Brit replication data (B) shows weak to high levels of statistical significance in the Strong Zone; no significance in the Weak Zone; and weak significance for the 7th house (half-zone of the Weak Zone),

**Table 3: Z-scores and Probability Values for redheads ABCDE in equal houses 12,1: (Strong Zone); and 6,7: (Weak Zone).** Experimental data groups (ABCDE) are tested using the expected values for three controls.

Experiments				
A) Total Redheads	165	161	103	89
B) Trede sans Hill-Thom	92	98	78	66
C) Total Am-CN Reds	118	122	71	50
D) Total Am-CN sans H-T	45	59	46	27
E) Total Brit Reds	47	39	32	39
Standardized Normal	House 1	House 12	House 6	House 7
A as z-score	1.84700	1.68580	-0.65149	-1.21566
B as z-score	1.22907	1.73765	0.04238	-0.97478
C as z-score	1.75222	1.94381	-0.49892	-1.50476
D as z-score	0.62256	2.28273	0.74115	-1.51194
E as z-score	1.41173	0.19077	-0.87756	0.19077
A as z with Shift Std.Dev.	4.55350	4.15611	-1.60614	-2.99703
B as z with Shift Std.Dev.	2.21506	3.13164	0.07638	-1.75677
C as z with Shift Std.Dev.	5.31972	5.90138	-1.51473	-4.56842
D as z with Shift Std.Dev.	1.56366	5.73340	1.86150	-3.79745
E as z with Shift Std.Dev.	2.90097	0.39202	-1.80331	0.39202
A as z with Gaug Std.Dev.	6.24297	5.68813	-2.20207	-4.10901
B as z with Gaug Std.Dev.	3.03690	4.29355	0.10472	-2.40858
C as z with Gaug Std.Dev.	7.26348	8.09094	-2.07673	-6.26342
D as z with Gaug Std.Dev.	2.14381	7.86065	2.55216	-5.20640
E as z with Gaug Std.Dev.	3.97731	0.53747	-2.47238	0.53747
A as z with Ast. Std.Dev.	12.71428	11.60467	-4.48467	-8.36831
B as z with Ast. Std.Dev.	6.18488	8.74414	0.21327	-4.90525
C as z with Ast. Std.Dev.	14.85371	18.47781	-4.22942	-12.75592
D as z with Ast. Std.Dev.	4.36603	16.00879	5.19768	-10.60323
E as z with Ast. Std.Dev.	8.10009	1.09461	-5.03519	1.09461

	Sum of z	PROB.	House 1	House 12	House 6	House 7	
	0.00000	Prob of ABS(z):	0.032373823	0.045916818	0.257366421	0.112057405	
	0.00000	Prob of ABS(z):	0.108522776	0.041136104	0.483097130	0.164834708	
	0.00000	Prob of ABS(z):	0.039867792	0.025959191	0.308916384	0.066193511	
	0.00000	Prob of ABS(z):	0.266786018	0.011223146	0.229302488	0.065274949	
	0.00000	Prob of ABS(z):	0.079014573	0.424351141	0.190090471	0.424351141	
A	0.00000	Prob of ABS(z):	2.641E-08	0.000016195	0.054121050	0.001363175	Shift
B	0.00000	Prob of ABS(z):	0.013377963	0.000869246	0.469557787	0.039478389	Shift
C	0.00000	Prob of ABS(z):	5.207E-08	1.808E-09	0.084920768	2.460E-06	Shift
D	0.00000	Prob of ABS(z):	0.058949220	4.936E-09	0.031337090	0.000073121	Shift
E	0.00000	Prob of ABS(z):	0.001860093	0.347520491	0.035669884	0.347520491	Shift
A	0.00000	Prob of ABS(z):	2.156E-10	6.074E-09	0.013830277	0.000019879	Gaug
B	0.00000	Prob of ABS(z):	0.001195181	8.798E-06	0.458298625	0.008007391	Gaug
C	0.00000	Prob of ABS(z):	1.522E-13	3.331E-16	0.018913108	1.891E-10	Gaug
D	0.00000	Prob of ABS(z):	0.016023899	1.887E-15	0.005352927	9.645E-08	Gaug
E	0.00000	Prob of ABS(z):	0.000034965	0.295469998	0.006710818	0.295469998	Gaug
A	0.00000	Prob of ABS(z):	0.000E+00	0.000E+00	3.855E-06	0.000E+00	Astr
B	0.00000	Prob of ABS(z):	3.120E-10	0.000E+00	0.415557543	4.672E-07	Astr
C	0.00000	Prob of ABS(z):	0.000E+00	0.000E+00	0.000011723	0.000E+00	Astr
D	0.00000	Prob of ABS(z):	6.331E-08	0.000E+00	1.011E-07	0.000E+00	Astr
E	0.00000	Prob of ABS(z):	2.220E-16	0.136844559	2.391E-07	0.136844559	Astr



by Z-scores calculated with control expected values. Chi Square for B is only significant for "Prob vs C1."

It should be pointed out that those small control groups of similar size to the redhead groups (C4-8) are evenly divided as to Strong/Weak Zone preference and are just as likely to show a slight Weak Zone preference! (Table 1, Figure 3B). Large Control groups lean toward a Strong Zone preference of about 1-2% (Table 1, Figures 3, 4B). Redhead groups always show a large variance between the Strong and Weak Zones, (with two exceptions: R6 and R2B), and always show the Strong Zone preference. (Table 1, Figures 3, 4, 4B.)

This great bulk of statistical, tabular and graphic evidence strongly supports the hypothesis that Mars is more likely than chance would allow to tenant Hill and Thompson's Strong Zone at birth for naturally redheaded people. These findings appear to echo, if not confirm the ancient tradition (see Notes 1). From the results here, a possible refinement could be added that American redheads favor a Mars distribution at birth in the equal 12th house, whereas British redheads appear to favor the equal 1st.

There is possible, yet unreliable support for the opposite Weak Zone hypothesis. Total Weak Zone effects are extremely variable,

**Table 4: Chi Squares and Probability Values for redheads groups ABCDE for Strong/Weak Zones.**

Chi-square tests of strong-weak only:						
	Prob vs 20 Set	Chi square	Prob vs GH	Chi square	Prob vs Ast	Chi square
A	0.00002146	18.05815846	0.00000275	21.79145813	0.000000021	50000
B	0.17493556	1.84013141	0.08236737	3.01755727	0.018490286	5.54906496
C	0.00000048	25.33197403	0.00000006	50000	0.000000001	50000
D	0.09468485	2.79286034	0.05090914	3.81126339	0.015764332	5.82896745
E	0.79953827	0.06448783	0.61608827	0.25140368	0.368671869	0.80813558

with some red-head groups showing high significance and others none at all (Table 2). Because some very significant half-zone replications occur for the equal 7th house, Table 2, we cannot dismiss the idea that some sort of Weak Zone exists for redheads near the Descendant point. The replication data appears once again to be divided by half-zone preference. The combined Am-Can replication data (D) shows statistical significance by Z-score within the equal 7th house and a similar half-zone replication within the equal 6th house occurs for the combined British replication redheads (E). This result for D and E is obtained from Z-scores calculated using the control expected values (Table 3). ■

*The end of part one. Part two will be featured in the next issue.*

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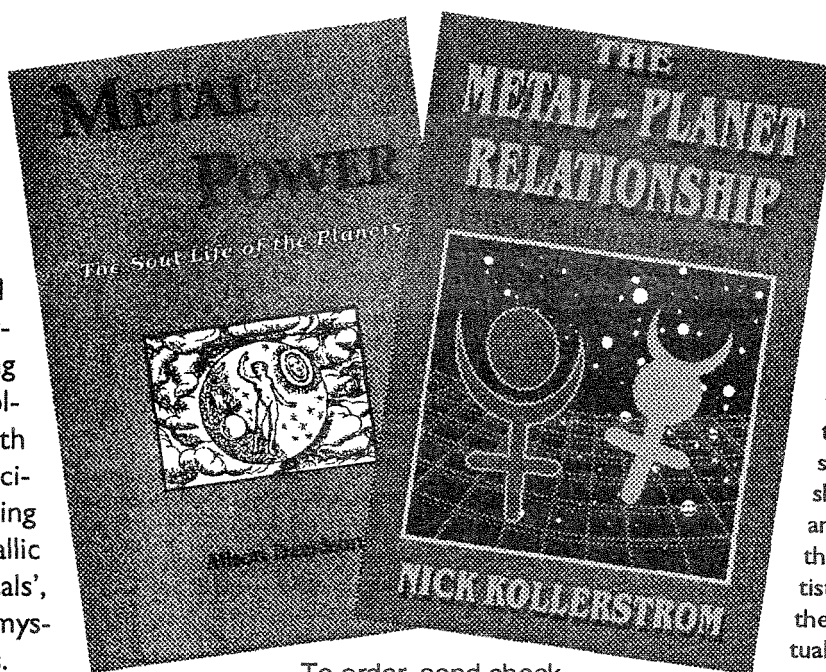
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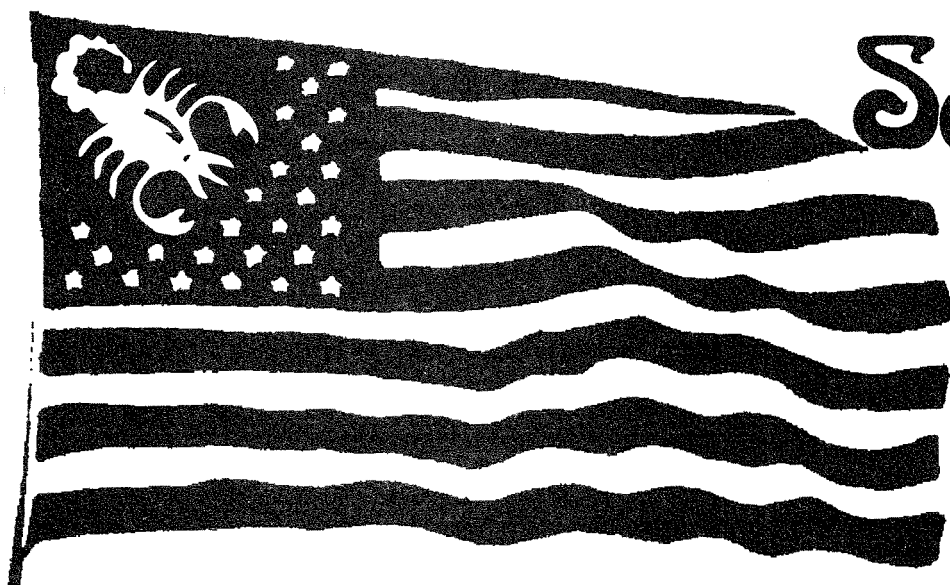
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# Scorpionic America

by  
David Solté

## HISTORICAL MYTHS & TRUTHS

"The Declaration is a masterpiece of propaganda..."

Howard Mumford Jones

Lowell Professor Emeritus, Harvard

The Uranus-Neptune conjunctions of 1993 marked the beginning of a new era. The entire globe now stands on the verge of a New World Order — political, spiritual and astrological. Those convictions all of us hold most dear are not immune to the quantum leaps of consciousness inspiring the billions of humanity worldwide.

In our nation, the societal parent role is assumed by teachers and historians. As individual adults, we all share the same deep fears of abandoning our cultural past that we experience when leaving our parents. If a majority of convictions all of us hold most dear are not immune to the quantum leaps of consciousness inspiring the billions of humanity worldwide.

In our nation, the societal parent role is assumed by teachers and historians. As individual adults, we all share the same deep fears of abandoning our cultural past that we experience when leaving our parents. If a majority of a generation fear to take the plunge and renew their own mythology, cultural amnesia may ensue. The societal parent tapes of the previous generations may then develop into a cultural trance that hypnotized the next generation. The July Fourth myth was the foundation stone for generations of Americans during the 19th and 20th centuries. As communism was demystified by Uranus (revolutionary) and Neptune (ideals) in Capricorn (the establishment history), so must Capitalism be reexamined. As Lenin was demystified, so must George Washington be reborn in the light of factual history. Let us not forget that amnesia is a hypnotic state, induced by a mental suggestion most often originating from outside the ego consciousness of the subject. Those in positions of institutional authority within a society are its hypnotists. It is up to the supra-conscious moral impulses of the individual citizens who comprise the forthcoming generations to assume the responsibility of self-dehypnotization. Every human soul is mythological in its unconscious state of awareness. The

questions, therefore, are not whether "to mythologize or not to mythologize," but rather "which mythologies" and "how will they be created and transmitted."

In the 1940's, Manly Palmer Hall revived Ebenezer Sibly's astrological chart cast for the late afternoon of July 4, 1776. Although he was a contemporary of the founding fathers, it has not been demonstrated that Sibly's information source was any other than the official published version of the Declaration and the comments of Thomas Jefferson, its primary author.

## SECRET JOURNALS

The testimony of Thomas Jefferson is powerful, and yet as early as 1884, Mellen Chamberlain proved that Jefferson (as well as John Adams and Benjamin Franklin) was inaccurate in his recall of the events surrounding the Declaration. By the mid-1940's, Chamberlain's conclusions were universally accepted by historians. Chamberlain was the first person to examine the original manuscript minutes of the *Journals of Congress*, otherwise known as the *Secret Journals*. On July 19, 1776, they stated, "Ordered that the Declaration passed on the 4th be fairly engrossed on parchment with the title and style of 'The unanimous Declaration of the thirteen united States of America.'" An entry on August 2 stated: "The Declaration of Independence being engrossed and compared at the table was signed by the members."

## THE COVER-UP

When Congress published the public Journals, it purposely transferred the July 19 and August 2 entries to July 4 in order to cover up the fact that the vote for independence was not unanimous and the declaration was not signed in the heat of an all-consuming patriotic passion. Yes, it was politics as usual—even back then with our own Founding Dads! Paul Leicester Ford, editor of *The Writings of Thomas Jefferson*, openly acknowledged that the published Journal was "fabricated." After examining Jefferson's "Notes," Hazelton announced that they had been written at one sitting sometime after Jefferson retired from Congress in September 1776. Charles Warren believes that Jefferson relied on the official published *Journal of Congress* to jog his memory, and was unknow-

ingly led onto the path of error. One wonders how a brilliant mind like Jefferson's could think the eloquent phraseologies of unalienable rights in one moment and then instantly forget the chronology of their acceptance and approval by Congress. What's even more suspicious is that John Adams and Benjamin Franklin also gave similar public testimonies about a July 4th signing. Privately, however, John Adams had written a letter on July 9, 1776 stating: "as soon as an American seal is prepared, I conjecture the Declaration will be signed by all the members." How could the three brightest minds in America forget the actual events surrounding Independence, with each making the same error? Theoretically it is possible that Adams and Franklin were also led astray by the published Journals, but it is most unlikely. Their motive in altering the records was to make it appear to the public that the motion was adopted unanimously and without hesitation. Politically, what better action could be taken to assure public support for the risky venture? It is reminiscent of televised political convention where a motion wins by a large majority and is then ramrodded through to a unanimous vote by the party chairman. Years later, Jefferson commented that the Founding Fathers' intended purpose for the Declaration was as "an appeal to the tribunal of the world." In other words, as Garry Wills so aptly put it, "the Declaration... was not a legislative instrument... it was a propaganda overture, addressed primarily to France."

### THE MEDIA IMAGE

July Fourth was, in fact, made into one of the major media opportunities of the 18th century. The renowned painter, John Trumbull, became a key player in moving the minds of the masses. Photo opportunities were unheard of in those days; paintings were the photographs of the 18th century, and Trumbull was aware of their media impact. He knew how they remained etched in the American collective unconscious. He recreated the signing of the Declaration of Independence out of his imagination, exactly as he would have liked it to be. Trumbull was determined to perpetuate the myth of the Fourth of July for posterity. As we already learned, the signing of the Declaration occurred August 2, or more accurately, that's when it began. Fifty delegates signed on August 2, one on August 27, three on September 4, one on November 19, and the final signer, Thomas McKean, waited until 1781. By portraying all the eventual signers at one meeting, Trumbull reduced historical truth to obscurity and gave birth to a great American myth. It is no coincidence that Thomas Jefferson was intimately connected with the creation of Trumbull's painting. While Trumbull was visiting him in Paris, Jefferson proposed that he paint the Declaration and he proceeded to sketch the layout of the main hall as he remembered it. Using Jefferson's sketch, John Trumbull drew the layout for his masterpiece, which he completed in 1819, 43 years after 1776.

### FEARLESS DADS?

The teaching of the Founding Fathers' fearlessness is also coming into question nowadays. Popular belief assumed that the American people knew the names of the signers when the Declaration was made public. The fact, however, is that only the signatures of John Hancock, President of Congress, and Charles Thomson, Secretary, were inscribed. The delegates withheld their names from the public for another five months after the August 2

signing because, if independence failed, their treason to the Crown might result in death. Not until after Washington's victory at the Battle of Trenton were the signers willing to go public!

### CONCLUSION

The proponents of the July Fourth chart have Jefferson as their main witness, and yet they cannot rely on his testimony. His claim that the Declaration was signed on the Fourth is fictitious, along with the late afternoon time. The fact that the Fourth of July was the climactic moment of Independence is a myth; all the Founders did was tidy up the wording and stoically approve an articulate press release.

In actual fact, the Fourth of July is one of the more insignificant dates in American history! Daniel Boorstin claims that the Fourth of July's "commonly assigned significance is a mystery that may never be solved." Not until the highly coincidental, dual deaths of John Adams and Jefferson on July 4, 1826, did the date become immortalized. Garry Wills writes: "The first American histories of the Revolution did not find the Declaration an important part of the process... Detweiler thinks it did not become a generally accepted 'national charter' till after the War of 1812."

On July 4, 1776, John Adams wrote home to his wife: "The second day of July 1776 will be the most memorable epoch in the history of America. I am apt to believe that it will be celebrated by succeeding generations as the great anniversary festival." On the evening of July 2, *The Pennsylvania Evening Post* stated: "This Day the Continental Congress declared the United Colonies Free and Independent States." This was the first announcement that publicly declared independence, and it proves that July 2 was the climactic turning point of history. This day marks the moment that the Founding Fathers **conceived** a united States of America and (to prove the point) spelled its future name with a small letter "u". This first Declaration of Independence was actually the twinkle in daddy's eye, not the moment of his infant's first cry.

### ONE PEOPLE

Almost everyone has an opinion about the birthdate of the United States, and rightfully so. Even the Founding Fathers had opinions—if only we could read their minds. It's important for all of us to realize that today, due to the vast quantity of firsthand documentation now becoming available, we can do just that! The following research is based on the contemporary vantage point of the Founding Fathers themselves; it seeks to unravel their opinions and attitudes. The primary sources include rarely published, well-documented quotations extracted from their writings and that of their contemporaries. Secondary sources are the writings of distinguished historians, experts in their specialized fields of study. This approach eliminates subjective speculation two centuries after the fact, allowing us to regain a real time perspective of late 18th century America.

### THE NATION'S BIRTH

"The child Congress has been big with, these two years past, is at last brought forth ... I fear it will by several Legislatures be thought a little deformed, - you will think it a Monster."

Cornelius Harnett to Thomas Burke, November 13, 1777  
Richard Henry Lee of Virginia boldly addressed Congress in the summer of '76, putting forth a radical resolution on June 7 that



called for independence from England and a plan of confederation, although the latter fact is commonly ignored. Both proposals were incorporated into this single resolution and simultaneously offered to Congress. Beginning in the nineteenth century, emphasis was placed on the dramatic act of separation that initiated the entire sequence of revolutionary events. Of course this makes for more exciting history lessons at school, but ultimately it detracts from the essential fact that in the minds of the Continental Congress such an emphasis would be misplaced.

On June 11-12, 1776, in accordance with the Lee Resolution, Congress created two committees. The first was headed by Thomas Jefferson and was to prepare a statement of independence. The second was headed by John Dickinson and was to draft a workable plan of union. Exactly one month later the Dickinson committee presented its report to Congress bearing the title "Articles of Confederation and Perpetual Union." The ink that inscribed the Declaration had been dry a mere week.

It becomes immediately obvious that from the very beginning, it was the intention of the founding fathers to politically separate the individual states from England and then form a nation. The Articles of Confederation took their final form after sixteen months of soul searching and interrupted negotiations. They represented the first institutionalization of that unique American contribution to political science — federalism, the principle of divided sovereignty. Although the Confederation's national government did not receive the wider, centralized power base later delegated in the U.S. Constitution, it retained many of the powers of a modern nation (regulating weights and measure, creating post offices, borrowing and minting money, directing foreign affairs and declaring war/making peace, building and equipping a navy).

When the Constitutional Convention assembled in Philadelphia in 1787, the delegates were greatly influenced by Article IV of the Articles, absorbing much of its language into the Constitution's fourth article. Article IV is often called the "federalizing article" because it defines the relationship among the states, and between the state and national governments.

#### Articles of Confederation

"The free inhabitants of each of these states... shall be entitled to all privileges and immunities of free citizens in the several states..."

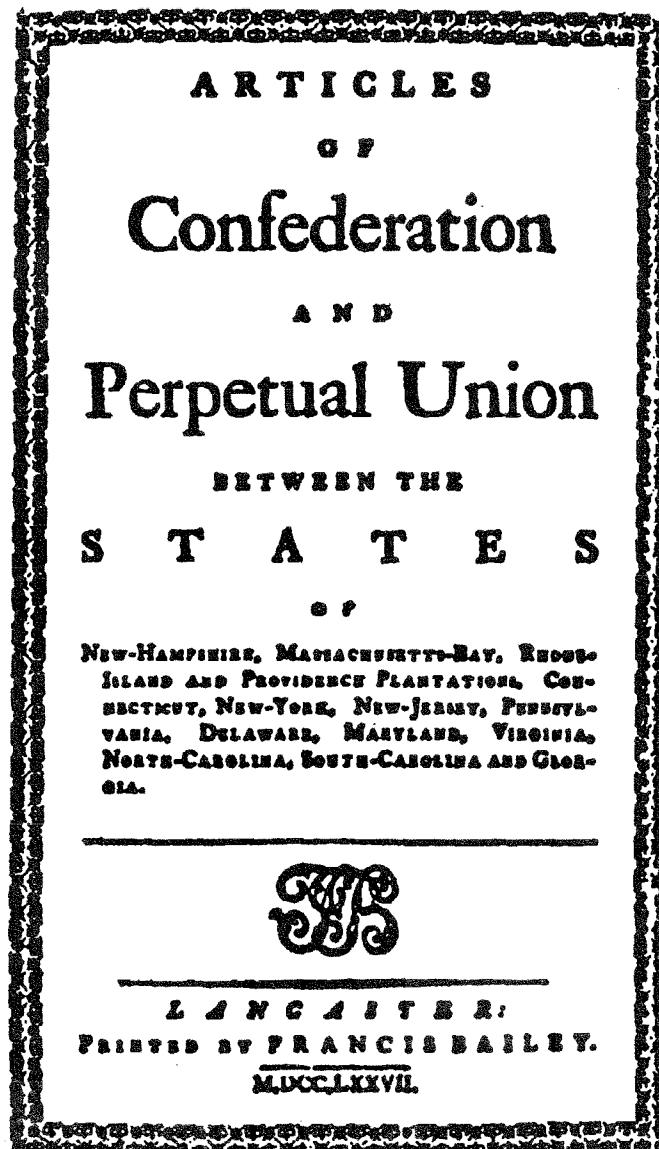
"Full faith and credit shall be given in each of these states to the records, acts and judicial proceedings of the courts and magistrates of every other state."

"If any Person guilty of, or charged with treason, felony, or other high misdemeanor in any state, shall flee from Justice, and be found in any of the United States, he shall upon demand of the Governor or executive power, of the state from which he fled, be delivered up and removed to the state having jurisdiction of his offence."

#### Constitution

"The Citizens of each state shall be entitled to all privileges and immunities of Citizens in the several states."

"Full faith and credit shall be given in each state to the public acts, records, and judicial proceedings of every other state."



### The title page of the Articles of Confederation, published in 1777

"A person charged in any state with treason, felony, or other crime, from justice, and be found in another state, shall on demand of the executive authority of the state from which he fled, be delivered up, to be removed to the state having jurisdiction of the crime."

November 15, 1777 is therefore, that isolated moment in history when the deal was made which established the United States of America. A new institution of federalism was initiated on the stage of world history. This is not the opinion of the author nor any other citizen of the 20th century. Instead it is the opinion of one of the prominent (but lesser known) founding fathers, Cornelius Harnett (see quotation above). Here was a man present on the stage of American history — at its very center. Here are the private written words of a contemporary Founding Father who was intimately involved in the drama of a renegade Congress running from its

Article One stated: "The Stile of this confederacy shall be The United States of America." Now the newborn's name began with a capital "U" instead of the small "u" it had been granted by the original heading of the Declaration of Independence. The well-publicized document of July 4, 1776 referred only to "the thirteen united States of America." As Librarian of Congress Emeritus, Daniel Boorstin, put it, "the uncertainties of the situation were expressed in the fact that the word 'united' ... was treated as a mere adjective rather than as part of the proper noun." The Founding Father "used a small 'u' for united because it was still only a hope." Not until after the victory of the Second Battle of Saratoga on October 7, 1777 were the Founding Fathers confident enough to establish a permanent government, including the capitalized "United" as part of its legally sanctioned title. Newborn nations are just like infants—the moment of birth normally coincides with the receiving of a name!

Independence had created not one nation but thirteen. At the time of the Declaration of Independence when John Adams spoke of "my country," he meant Massachusetts Bay, and Thomas Jefferson meant Virginia.

In the strictest legal sense, the vote for independence was an act of separation, not one of political union. From a traditional mundane perspective, the act of declaring independence from another political power is not viewed as the birth of a nation. Nicholas Campion, noted mundane astrologer, author, historian

and political scientist, addresses the issue of independence horoscopes head-on:

The attaining of independence by a state is therefore not a magical point at which it comes into existence... but a point at which power shifts irrevocably from the old to the new order... Many national horoscopes are set for the moment at which states achieve their independence from a colonial master, yet it is entirely false to describe independence as marking the foundation or beginning the stage.

### **POLITICS VS. HISTORY**

Unjustly, the Confederational government has not been assigned a prominent role in our nation's history. Instead, it has been treated as an instigator of the social chaos and economic depression after the Revolutionary War ended. Noted historian, Henry B. Parkes, wrote:

The gloomy portrayals of this period have been derived mainly from the propaganda of the group working for a stronger central government ... in many ways the Confederation period was one of rapid progress.

Who would think it appropriate to blame the Constitution of the United States for the 1930's Depression, the S & L bailout of the 1990's, or even the chaos created by gang violence in the streets? Today such outcries would seem ridiculous, and yet these are 20th century equivalents to the charges leveled against the Articles of Confederation by the Federalist party of the late 18th century.

Under the direction and control of the Confederational government, the United States soon became a success:

- 1) The Revolutionary War was concluded with a major victory;
- 2) an exceptionally favorable peace treaty was negotiated and vast, new territorial boundaries were secured;
- 3) the central core of the United States government's bureaucratic administration was established and developed;
- 4) the first executive branch of the U. S. government was created when four major departments were set up;
- 5) prosperity slowly returned despite the innumerable economic problems arising from the war;
- 6) the territorial lands issue was permanently resolved by the Northwest Ordinance—the first of its kind in all of world history—insuring equality between the a newly admitted states and the original states;
- 7) national citizenship was established:

full-faith-and-credit across state lines, creditors from one state frequently sued in other states' courts. The Confederational government's record was one of exceptional achievements, especially when considering that all these projects were implemented in just eight years! Typically, such acts become the foundation stones of nation; they are the fundamental reasons why the United States came into existence. Recorded history proves that the Articles of Confederation was not the do-nothing government some 19th century historians liked to portray. Although imperfect, it was a solid, credible government; otherwise it would never have received the massive amounts of foreign aid it obtained from France. Andrew C. McLaughlin, a leading authority on American constitutional government, wrote about the articles of Confederation:

...They were in many respects models of what articles of confederation ought to be, an advance on previous instruments of like kind in the world's history.

...as far as the mere division of powers was concerned, the Articles were not far from perfection...

Despite the burdensome concerns of his private domestic life, Jefferson took part in the discussion which shaped the Articles of Confederation. On July 29, 1776 he wrote an urgent letter to his colleague from Virginia, Richard Henry Lee:

The minutiae of the Confederation have hitherto engaged us, the great points of representation, boundaries, taxation, etc., being left open. For God's sake, for your country's sake, and for my sake, come. I receive by every post such accounts of the state of Mrs. Jefferson's health that it will be impossible for me to disappoint her expectation of seeing me at the time I have promised, which supposed my leaving this place on the 11th of next month ... I pray you to come. I am under a sacred obligation to go home.

Although committed to an August 11 departure, Jefferson stayed on more than another three weeks, until September 3. At this crucial time in his nation's development, Jefferson's commitment to the writing of the Articles of Confederation was uncompromised.

July Fourth '76 romantics like to portray the Articles of Confederation as inadequate and, therefore, invalid as our nation's founding document of state. It is historical irony of the highest order that the key witness testifying on behalf of the Articles of Confederation would be none other than the very author of the Declaration of Independence, Thomas Jefferson. He enthusiastically proclaimed that the confederation was the best government "existing or that ever did exist." Jefferson compared it to the governments of Europe, noting that the contrast was the difference between "heaven and hell." Although he ended up supporting the Constitutional Convention of 1787, Jefferson went on record as still preferring the Articles of Confederation! He viewed the Constitution as a substitute for America's original founding government:

Indeed, I think all the good of this new Constitution might have been couched in three or four new articles, to be added to the good, old, and venerable fabric.

### **THE FOUNDING GOVERNMENT IS OUR PRESENT GOVERNMENT**

The U. S. Constitution is deeply rooted in the Articles of Confederation. Historian Max Farrand has pointed out that the "surprising thing, especially to one accustomed to condemn the Articles of Confederation, is to see how large a part of the powers vested in Congress were taken from the Articles of Confederation ... it is not too much to say that the Articles of Confederation were at the basis of the new Constitution."

The writings of James Madison, the Father of the Constitution, corroborate Farrand's remarks. In all of American history, there is no one more qualified as an expert witness to write about the Articles' impact upon the constitution than Madison himself:

If the new Constitution be examined with accuracy and candor, it will be found that the change which it proposes consists much less in the addition of NEW POWERS to the Union, than in the



invigoration of its ORIGINAL POWERS.

The powers relating to war and peace, armies and fleets, treaties and finance, with the other more considerable powers, are all vested in the existing Congress by the Articles of Confederation. The proposed change does not enlarge these powers; it only substitutes a more effectual mode of administering them.

Madison's texts fully refute accusations from historians who content that the Constitutional Convention rejected the Articles of Confederation and redesigned a new government from the ground up. Furthermore, even the Preamble to the Constitution itself stated Madison's view, boldly announcing to the world that the Constitution was an extension of an already pre-existing government: "We the People of the United States, in Order to form a more perfect Union..."

### THE LEGAL U. S. BIRTH CERTIFICATE

The official 'bottom line' is reached when a major legality arises and an individual (person or nation) must produce proper identification. After the Revolutionary War, during negotiations at the Treaty of Paris, John Adams was challenged by Austrian and Russian mediators to allow separate negotiations between England and each of the thirteen states. Adams responded swiftly. He referred the ministers directly to the Articles of Confederation and the clauses surrendering the independence of the thirteen states as separate sovereignties. Adams then pointed to Articles which expressly delegated the U. S. Congress with the authority to negotiate with foreign nations. This incident established a clear precedent for international legal matters. When the time had come for the U. S. to show its legal ID — its birth certificate. The articles of Confederation and perpetual Union were produced, not the Declaration of Independence!

### RATIFICATION IS NOT BIRTH

Contrary to the 19th century's popular belief that the Articles of Confederation were not in force until officially and unanimously ratified in 1781, the Confederational government went into effect at the time of the Articles' approval in 1777. Delegates to the Continental Congress had been freely chosen or elected directly as representatives of the people from their respective colonies. This was a case of grass-roots democracy in action. Consequently, the people entrusted their delegates with full legislative powers and specifically instructed them to establish a Union. Article XIII stated that the delegates were direct agents for the states and had given the powers of legal ratification themselves. This means that the act of approving the Articles of Confederation was, by itself, an unofficial ratification.

The Circular Letter from Congress, dated September 8, 1779, sets the record straight about the legal function of the Articles of Confederation after their adoption. Prepared by John Jay, president of the Confederational Congress, the letter informed the states that:

For every purpose essential to the defense of these states in the progress of the present war ... the States now are as fully, legally, and absolutely confederated as it is possible for them to be.

Distinguished constitutional scholar and eminent historian, Richard B. Morris comments:

This remark has peculiar relevance, because the Articles of Confederation had already lain on the calendar for a good two years and still lacked ratification by one state. Here was the president of Congress, acting on behalf of that body, declaring that such unanimous ratification was not necessary, a position supported in some part by the fact that the Articles were silent on the number of states needed for ratification.

And if that weren't enough evidence to prove a point, James Madison, future Father of the Constitution, responded to President Jay's remarks with his full approval! With strong nationalistic tones, he noted "a sense of common permanent interest, mutual affection... and splendor of the union conspiring to form a strong chain of connection, which must forever bind us together."

Several other facts point to a pre-1781 existence of a national government as well:

1) Eleven of the thirteen colonies wrote their state constitutions prior to March 1781 and yet not one of them claimed powers of national sovereignty, i.e. military defense and foreign affairs.

2) On February 6, 1778, less than three months after adoption of the articles, the Confederational government entered into two official treaties with France — a military and a commercial alliance. For centuries, the capacity of a government to enter into relations with other states and exercise its own foreign affairs internationally has been recognized as the acid test of national sovereignty. To this day, it still remains a commonly accepted tenet of international law.

3) The Confederational Congress began issuing international passports in 1778, another action that officially confirmed its status in the international community of nations.

4) The pre-existence of the U.S. as a single, sovereign nation was France's primary condition for economic and military aid. French foreign aid was being received by the U.S. already in 1778.

5) Writing in 1779, James Madison stated that the Confederational government had long ago assumed the war debt. This could not have occurred if a national government did not exist until 1781. In that case, the states themselves would have been responsible for the majority of the Revolutionary War debt as it had been prescribed by the Declaration of Independence.

All these factors combined lead to the conclusion that government under the Articles of Confederation was alive and well from the moment of its inception on November 17, 1777.

Although imperfect and weaker than our present Constitution, the Articles of Confederation created a solid, credible government. The primary argument historians offer to discredit the Confederational government is its weak beginning. Boomerang logic, however, turns this contention against its promoters. Newborns are, by definition, inherently weak. Can you envision "proving" that an infant is unborn simply because it is weaker than an adult?

Imagine now, for just one moment, what our continent would be like had the Articles of Confederation not been approved. What is now the continental U.S. might have remained, even to this day, a vast conglomeration of separate countries not unlike Europe. Think about it. The Declaration of Independence is the document that headed America toward a collage of political and economic

boundaries. It would have inspired a high level of competition and infighting that might have even paralleled Europe in the first half of this century. The Founding Fathers averted that course after spending one and a half years in and out of intense negotiations to forge a legal agreement acceptable to each of the individual states. That's why November 15, 1777 is the key turning point in U.S. history. It is that moment when all the philosophical eloquence was put into action. It is that moment in history when the Founding Fathers walked their talk. As for the Declaration, historians freely admit it lacked the force of statutory law.

### A KEY WITNESS

Our last contemporary witness is John Rogers, a personal consultant to General Washington during the Revolution:

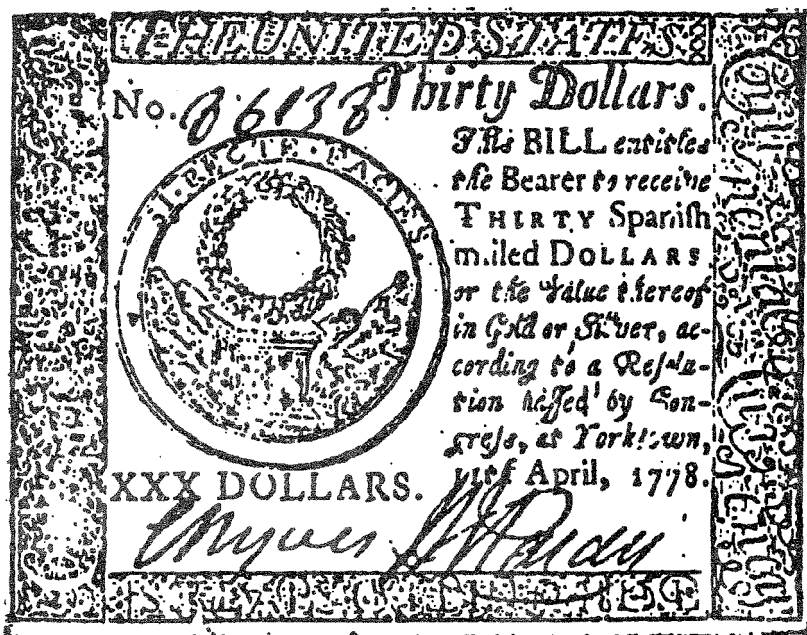
Again, the formation and completion of that social compact among these States, which is usually stiled the Confederation, is another instance of the great things our God has done for us. This is that which gives us a national existence and character... By this event, the Thirteen United States... became ONE PEOPLE.

### NUMISMATIC BREAKTHROUGH

Money is the very lifeblood of a society, directly affecting every human transaction between citizens of a nation. It established a legal basis for the existence of a government and also provides an ever-present symbol of a national consciousness. As a consequence, its importance as historical evidence should not be overlooked. Referring back as early as Ancient Rome and the biblical times of Herod the Great, historians have utilized numismatic research as their best evidence in determining the accurate date of inception of a ruler's reign. Why shouldn't this time-tested chronological instrument also be employed in historical research for the date of inception of the United States of America? The legal status of numismatic research is beyond reproach, and its mythical-symbolic representation of national consciousness remains unsurpassed.

The first emission of Continental Currency was put into circulation in August of 1775. It bore the date of the May 10, 1775 session of the Second Continental Congress. The title, THE UNITED COLONIES, was engraved in fancy script on the top and bottom borders of the various denominational notes. This established a systematic pattern that continued without exception — even after the Continental Congress adopted the Declaration of Independence on July 4, 1776!

The July 22, 1776 resolution of the Continental Congress authorized a new emission of currency. More than two weeks after voting for independence, the same Founding Fathers consciously avoided the title, THE UNITED STATES. One wonders "Did the Founding Fathers absent-mindedly forget to change the engraved cuts due to the hectic pace of business after the Fourth of July?"



Hardly! Instead, they actually took extra time to change the style of fancy script that inscribed THE UNITED COLONIES, reverting back to a style almost identical to that employed for the November 29, 1775 resolution. Then one wonders, "was there some sort of miscommunication between the Congress and the Currency printing office?" Apparently not. The subsequent November 2, 1776 resolution continued usage of the inscription, THE UNITED COLONIES, and so did the February 26, 1777 resolution, and then the May 20, 1777 resolution as well. More than ten months and four resolutions after the Declaration of Independence was approved, the Founding Fathers stubbornly resisted changing the legal name of the colonies.

After the November 15, 1777 founding of our nation at York,

Pennsylvania (Yorktown), a dramatic change occurred in our currency. On April 11, 1778, for the first time in America history, the title THE UNITED STATES OF AMERICA was engraved on the top and bottom borders. All semblances of the original titles had completely vanished! This was the first currency resolution to be passed by Congress since the founding on November 15, 1777. Because Congress was still located at the site of the nation's founding when the resolution was authorized, this emission was known as the Yorktown issue.

All currency resolutions from April ii, 1778 and after bear THE UNITED STATES title engraving without exception. These include both the resolutions of September 26, 1778 and January 14, 1779. The 1779 resolution added North America to the title, becoming THE UNITED STATES OF NORTH AMERICA.

CONCLUSION: As you can well imagine, there are a lot of philosophical arguments that can be offered to avoid the truth about our nation's birthdate. However, one piece of evidence which Declaration proponents cannot avoid is numismatic evidence. It leaves July Fourth advocates, both astrologers and historians, with a lot of explaining to do. If the Founding Fathers truly believed they were founding the United States of America when they declared independence, they would have appropriately removed the old title, THE UNITED COLONIES, and replaced it with THE UNITED STATES OF AMERICA.

### THE ASTROLOGICAL PSYCHE

The eagle typified the sun in its material phase and also the immutable Demiurgic law beneath which all mortal creatures must bend. The eagle was also the hermetic symbol of sulphur and signified the mysterious fire of Scorpio...the signature of the Mysteries may still be seen on the Great Seal of the United States of America... the American eagle upon the Great Seal is but a conventionalized phoenix...

Manly Palmer Hall: *An Encyclopedic Outline of Masonic, Hermetic, Qabbalistic, and Rosicrucian Symbolical Philosophy.*

The symbols of a nation are direct reflections of its archetypal myth. The more we contemplate this myth, the more we are able to understand the national psyche itself. As a symbol, the Eagle has dominated the American psyche from its earliest years. With its selection for the Great Seal in 1782, the Eagle was officially recognized as the national archetype. Defined in the simplest of terms, one can say that an archetype is "a universal image or idea affecting billions of people over centuries of time."

The landing of a man on the moon was one of the United States' greatest achievements. The Scorpionic symbology of the feat was verified by Neil Armstrong when he announced to the entire world: "The Eagle has landed." A billion people listened to those first words from the moon, words etched in the mind of the human race for future aeons. Across the deep, infinite void of outer space, the word "eagle," the national archetype of the United States of America, had been transmitted to the far corners of the Universe.

The astrological heritage of America is very real. The entire identity of our nation and government is permeated by Scorpio's symbology. As a people, we are in contact with it and reminded of its significance daily. The Eagle's symbol has been minted on billions of coins and engraved on trillions of one dollar bills. The *Star-Spangled Banner* depicts our nation at war with airborne rockets and "bombs bursting in air," leading to an eventual victory

of the forces of light over darkness. Through its words and melody, our national anthem represents the Scorpionic struggle for existence at its fullest, most dramatic expression. In our schools, we still remember the ultimatum voiced by Patrick Henry — "Give me liberty or give me death" — as one of the most fundamental expressions of the national psyche. The final words of Nathan Hale — I only regret that I have but one life to lose for my country" — reinforce that example. National and state elections are the very heart of our democracy and the freedom it bestows, and they occur during Scorpio's annual cycle.

From the historical perspective developed earlier, the United States' date of birth has already been determined as November 15, 1777, however, the exact time of day is not provided in any of the records. Nevertheless, there are sufficient clues. Pages 395 and 401 of the *Journals of Congress*, Vol. III, point to sometime between 11 a.m. and 2 p.m. By turning to rectification procedures to fine tune, 12:46 p.m. LMT surfaced as the indicated time of the Articles of Confederation's approval. (see chart)

Traditional astrology profiles the Scorpio personality as one based on power and self-control. These qualities in turn create a character that is intense, strong-willed, secretive, courageous and passionate. More than any other sign, Scorpio has the potential to destroy and regenerate, to resent or forgive, to rise to spiritual heights or self-destruct. An inner sense of moral truth and self-honesty is the key to unlock the Scorpio personality.

Andrew Shapiro's book, *We're Number One* (New York, 1992) stands as a clear indictment of the July 4, 1776 Cancer chart. His hard facts provide irrefutable evidence that America's children are the most neglected in the developed world. IN FACT, EVERY CANCERIAN CHARACTER TRAIT TYPICALLY ASSIGNED TO THE UNITED STATES TOTALLY FAILS WHEN COMPARED TO HIS STATISTICAL RESEARCH — WITHOUT EXCEPTION. Those areas in which the Cancerian chart should excel are the very ones which cast it to the bottom of the data heap. Shapiro utilized the most reliable statistical data available from the United Nations, World Bank, International Monetary Fund, World Health Organization, the World Values Survey and similar sources dated from the late 80's through 1991.

Among the nineteen major industrial nations of the world the United States is Number One in homelessness, Number One in children living in poverty, Number One in the murder of children, Number One in infant mortality, Number One in infants born at low birth weight, Number One in not offering paid maternity leave, Number One in abortions, Number One in preschoolers not immunized by vaccination, Number One in single-parent families, and that's just the tip of the iceberg. We're also Number one in:

- \*percentage of population without health insurance
- \*death of children younger than five
- \*death due to breast cancer
- \*reported rapes
- \*junk food consumption.

The plot thickens as we turn to categories where America finishes last:

- \*teacher's salaries
- \*spending on the poor, aged and disabled



- \*humanitarian aid to developing countries
- \*paid vacation days (time with family).

Although Cancers are known to hold on to their money, America is last in investing and saving. America doesn't even hold on to things around the house — we're Number One in garbage per capita. Far from being the Cancerian caretakers of the world and the environment, the U.S. is Number One in hazardous waste per capita, Number one in greenhouse gas emissions, acid rain, air pollutants, and forest depletion. If ever a nation existed with four of its seven traditional planets in Cancer, America is NOT it!

Instead, it's a tough cruel Scorpionic world out there. The U. S. is Number One in:

- \*AIDS
- \*murder
- \*gun ownership
- \*deaths by gun
- \*murderers still at large
- \*percentage of population willing to fight for their country
- \*defense spending
- \*R&D funds devoted to defense
- \*military aid to developing countries
- \*percentage of populations who have been crime victims
- \*incarceration
- \*drug offenders per capita

- \*drunk driving fatalities
- \*robbers and thieves per capita
- \*cancer among men
- \*coronary bypass operations
- \*divorce
- \*real national wealth
- \*unequal wealth distribution
- \*executive salaries
- \*inequality of pay
- \*billionaires
- \*bankers
- \*credit cards
- \*ATM machines
- \*bank failures and bailouts
- \*budget deficit
- \*foreign debt
- \*Fortune 500 international companies that lose money
- \*lawyers
- \*litigation
- \*nuclear reactors shut down, suspended and canceled
- \*nuclear reactors in operation.

This statistically derived profile of America points to one fact — the United States is a SCORPIOPATH, i.e. a nation trapped within its own obsessions, addicted to secrecy, money, sex, weapons, power, gambling, religion, entertainment, drugs and denial!! M

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# The Nature of the Etheric Worlds

by

N. Meade Layne

*Round Robin*, Volume IV, No. 8, November 1948



**P**ROBABLY all our readers are familiar by this time with what we have come to call the etheric hypothesis of the origin of the flying discs and other types of strange aircraft. This hypothesis, or theory, states in brief that these craft are constructed by etheric people on their own plane of existence; they are mental constructs existing in etheric matter. They appear in our world by a process similar to materialization, somewhat as an apport is re-materialized after being dematerialized in the process of apportation. The etheric form is filled in by particles of dense matter. The phenomenon is far from being unknown to students of occult subjects, and is akin to the ectoplasmic materializations often seen in seance work.

This explanation, as readers will also recall, was first given by the communicators at the Mark Probert seances. They also explained the probable reason for the coming of the discs, and referred to many other visits made by the Ethereans during past times.<sup>(1)</sup> We cannot review these details here, but only say that up to the present date at least, this explanation is the only one offered from any source, which covers all of the verified data, and that nothing contrary to it has yet been reported. Because of this, and because the statements of the communicators are quite in harmony with occult knowledge, and also with the most advanced concepts of contemporary science, this publication and nearly all BSR Associates continue to study the phenomena from this point of view, of the 'etheric hypothesis'. To reject this approach *a priori*, or because of distaste for psychic means of investigation is sheer prejudice and stupidity, and certainly far from the ideal scientific attitude.

The concept is, however, extremely difficult to 'put across' even to the so-called educated classes, due partly to the whole cultural milieu which has produced their 'education', and also to the fact that the ideas involved are somewhat subtle and difficult, do not originate in our Western modes of thinking and are not particularly congenial to them. To most of us the 'esoteric tradition' is little more than an intellectual curiosity. Nevertheless, if we wish to grasp these present day happenings (which are stark reality) we shall have to wash our minds clean of the notion that our western

science holds the total of human knowledge, and that all ancient and alien peoples are fools and ignoramuses. That does not mean, of course, that we must accept the ancient teachings as correct and right and perfect in every detail. But they purport to hold much knowledge in fields where we have none at all, and scholars in all ages have studied them with profound attention — hence to despise and neglect them is not the part of good judgment.

Now, if we are disposed to listen at all to the statement that the discs and other craft originate in the 'etheric world' or on the 'etheric plane', one's first question naturally is: What is this world or plane — and where is it?" We hear a great deal about the astral planes, and even about the mental and 'spiritual' planes, but the etheric world, we are told, is not to be identified with either. It is not the world which we enter immediately after death (except perhaps for a very brief time), and its inhabitants are not incarnate humans. And as to its location, it is not 'out there somewhere' in space, but is right here, in and through our own world of dense matter. And it is not vaporous and insubstantial, but perfectly real and material to its inhabitants. It is a region of existence, of reality, to which our normal senses do not respond, and which present-day scientific instruments do not detect.

On reflection this seems reasonable enough in theory. Our eyes perceive a certain spectrum of color — the seven colors, red to violet. If we define colors as facts of perception, that will be all of them. But the scale of color vibration does not end with red and violet; we already know about the infrared and ultraviolet, even if we cannot see them directly. The waves go on increasing or decreasing in length or frequency, and they would be color for us if our eyes were adapted to seeing them. There may, therefore, be a whole world of invisible solid objects all about us, possessing colors of their own. And if we consider sound, we find a similar situation. We do not normally hear above the squeaking of a bat, or below certain deep levels of vibration which translate into motion. But the scientist knows very well that the universe is full of noises imperceptible to our ears. Radar apparatus is picking them up everywhere from the depths of space. Thus the sound spectrum.

also continues indefinitely, and we may live amid the sounds of etheric cities, the talk of invisible people and the 'music of the spheres' without any awareness of it. The microphone, radar, and the telescope extend the limits of sense perception — but only by a little, a very little, for the omniverse lies beyond.

What is true of the spectrums of sound and sight can easily be applied also to the senses of smell and taste and touch. As to this last, it fails us when we pass from solids and liquids (and gases in motion) and try to detect the presence of air, gas, and an immense number of radiations by the sense of touch. But things which cannot be touched are not therefore nonexistent, any more than things we cannot see or hear.

In this connection (tho' the subject cannot be developed here), it is probably wrong to assume even that touch, or tangibility, depends on density or solidity. It is an ancient teaching that there are worlds of superior density, of matter far more dense than any we have knowledge of, and that these lie, so to speak, below the limits of the spectrum of touch, as radio waves lie below the limits of the spectrum of vision or color. It seems incredible at first hearing, that an increase in the density of matter would render it untouchable, just as decrease of density does with air and gases; yet this fact and the reasons for it were well understood by the ancients.

Leaving this last point aside for the moment, the general situation is understandable and reasonable. The five senses are narrow slits or loopholes through which we become aware of little areas of the universe about us. A tiny spotlight of consciousness dances about, reporting a few sounds and sights and colors, along with size, shape, weight, texture, resistance and other 'qualities of matter', and we widen the spotlight a little by means of instruments — and then fancy, sometimes, that the whole of reality is known to us, or fast becoming so. It is as if the long-legged water-spinner on the surface of the pool should deny the depths beneath and the heights of air above. There is nothing novel in these considerations, but it may be useful to advance them once more because now we must make their practical application. The etheric worlds exist in and through our own world, and we do not perceive them for the reasons we have been discussing, and the fact that we do not see or hear or feel them is less than a child's argument against their existence and reality.

It would be legitimate to object: "All that you say may be true, but is there any positive evidence for the existence of such worlds? For it is right for us to depend on our senses, supplemented by our instruments; and if we can neither discover the existence of an etheric world, nor infer its existence, we have no business to affirm it."

To this the reply can only be: (1) that we constantly have before us (and very strikingly of late) many facts which are explicable only by assuming the existence of the etheric worlds (2) That their existence has been affirmed from times immemorial, that they have been investigated by psychic means, and that the reported facts are conformable with philosophy and with the most advanced findings of modern science. Whoever chooses may deny the facts and reject all psychic and occult investigation, and the many startling implications of scientific research; but the present writer cannot so deny and reject, nor will most of our Associates in these studies be inclined to do so, Malamala! — Let us uphold and spread abroad the Light!

With this much clearing of the ground, however inadequate, let us adventure a little further into what has been believed and taught concerning these etheric regions. It is customary among the Qabalists (2), and among other Schools also, to speak of the outer and the inner planes; and by this is meant, briefly, that for every plane or level or 'sphere' of existence there is a corresponding mode of consciousness. For our earth plane we have the consciousness governed by the five senses, and we perceive the phenomena for which they are adapted. The dweller on the astral has his type of consciousness also, and it responds to his peculiar environment and not (normally) to ours. If one prefers, this of course can be restated to read, that our type of consciousness projects the phenomena of our plane, and that of the astral dweller projects his environment also; but the subject-object relationship remains so far as the 'illusion of experience' goes, and the dualism of percipient and the thing perceived. Also, the planes and the objects belong to them do have position in space. To affirm that space is itself a consciousness-product, either of the personality, or of the Cosmic Mind, or of both, or of the latter operating *as* and through the former, though almost certainly true, does not change the situation from the standpoint of experience by the perceiving entity: for him space, or rather objects 'in space', exists.

The etheric worlds therefore exist in space, and interpenetrate with our own; and if we wish to be crudely materialistic about it, we can say that their substance exists in and flows through our dense matter, as wind or water pass through a coarse wire screen. It is well known that the interspaces of an atom, and between molecules and other particles, is relatively very large; our dense matter is extremely porous and wide-spaced, so that there is "room" for inter-ethers or other existents — just as a bucket of coarse gravel has room for a great amount of sand or water. The dense matter of the etheric world may be emanation-matter from ours (though our dense matter probably originated from an etheric source), and copper (e.g.) is probably emanation-copper on the etheric, and on the astral also. It may possess somewhat different properties, and there may be many elements on the etheric level which are not present in our world; nevertheless it is a real, solid and substantial sphere of existence. A principal difference seems to be, that etheric matter can be manipulated by the energy of thought; and we are told that the discs are constructed by first creating them as thought-form (as a carpenter creates a box in his mind before he makes it in wood), and that this is filled in by dense matter when the discs appear in our own world. Incidentally, the etheric 'plane' is NOT a fourth dimensional world.

It seems somewhat strange, that the one particular phase of esoteric teachings now being thrust upon the Western mind, should be subtle and difficult beyond the average. The nature of the etheric planes cannot be understood without at least an elementary grasp of the LOKAS and TALAS,\* and this subject does not lend itself to easy exposition. To approach it, let us recall what was said above about the outer and inner planes, or the dualism of consciousness and its vehicle, or of energy and matter. This dualism is said to run through the whole Kosmos or Planetary Chain. Consider the following diagram: (next page)

\*Note: The RR editor, of course, is not concerned at all as to whether the reader 'believes' or rejects the esoteric cosmology involved. The situation is simply that we are confronted with certain

Qabalists call these Atziluth, Briah, Yetzirah, and the sphere of the Qliphoth.	A	Archetypal World	G	)	The Planetary Chain: 7 Elements & 7 Principles of Kosmos
	B	Intellectual or Creative World	F	)	
	C	Astral or Formative World	E	)	
		Physical World — Terra		)	
		D		)	

the Lokas and Talas, and each Element or Globe has 7 reflected Lokas and as many Talas. The Lokas really *are* the Elements, and the forces in them are the Principles of the Kosmos — the Consciousness which fills Space and which IS Space. The “inner realms of a man or of a Globe

phenomena of probable etheric origin, and that there are certain teachings extant about these etheric regions which certainly deserve close examination — since our own science has nothing at all to say ... Most of the information here given is drawn from the works of G. de Purucker, M. A., D. Litt., and especially from his **Fundamentals of the Esoteric Philosophy**, David McKay Co., 1932, pp. 390-416 et pas.

Now, an “element” is a sphere of action, or a manifestation of a ‘Principle’. And these different spheres of action, and the energy which acts in them, are within each other, much as the tree-energy and tree-form are ‘within’ the acorn, and the acorn form-and-energy are ‘within’ the life germ. Each of these worlds, also, emanates from the preceding one, and produces its following one by a kind of overflowing of forces; and more than this, each is reflected by the world which it emanates. Under this concept, our world “D” for example, has arisen out of all the others, and every atom in it is related to the whole Kosmos — which happens to be good modern science and sound philosophy and religion as well.

The Life Wave is conceived of as passing through all these worlds (from A to G) and this passage is called a Round. But the idea is more involved than this, because the Wave advances in the form of seven subwaves on each globe (there are two globes in each world). The mineral life of “A” is pushed out, so to speak, by the vegetable life-wave, and overflows into “B”, The vegetable life is pushed out by the animal, and the mineral life of “B” flows into “C”, etc. The 7th globe, “G” is Devachan, or the long period between incarnations, tho’ there are shorter rest periods between the globes.

Each globe (not “world”) has 14 states of matter, consisting in each case of 7 Lokas and 7 Talas, which may be called sub-worlds. Lokas and Talas are related somewhat like the poles of a magnet — the nature of a magnet implies the polarity. Neither can exist without the other. These sub-worlds are *within* each other — it is an “onion-universe” rather than a layer-cake one. But the inner sub-worlds are not *smaller*; physical size has nothing to do with this concept. They are finer, more ethereal, and their rays emanate farther than do the rays of the outer sub-worlds. The subwaves of the great Life Wave operate in these Lokas as they “ascend” on the “Luminous Arc”, and the “descending” subwaves operate in the Talas or “Shadowy Arc”. The entities existing in the various Lokas and Talas have the type of body corresponding to the Loka as, physical, astral, etheric, spiritual, mental — and this is equivalent to the “inner” and “outer” planes already mentioned.

We ourselves of course inhabit a Loka and a Tala, and there are *six other humanities* evolving in their own Lokas and Talas, on “our” planet — they are six mankinds. And the 7 Elements (diagram) are worlds, not globes; they are regions of life and action within the globes, and are filled with innumerable humanities, of which the human stirps is only one. Each “Element” works with all

are the various planes of the Auric Egg.”

Our earth is called Bhurloka, and is said to extend to the limits of the atmosphere. The “next” is called Shuvarloka, and its rays extend to the sun — but it is an ethereal world existing *within* the earth. And *within* the Bhurloka is the Swarloka, the rays of which reach the Pole Star. It is these auric Rays which bind the universe together, and give us our communication with the rest of the Kosmos — “Bind the whole world with gold chains about the feet of God.” Note that it is the most inward of the Lokas which radiate the farthest. Their radiation is equivalent to a magnetic field. Our earth is also Patala, or the lowest Tala. Once again, Lokas and Talas correspond to spirit and matter.

There are thus 7 worlds which make up the universe; and those worlds are polarized into Lokas and Talas. Each of the 7 globes of our chain has its own 7 Lokas and 7 Talas — and in each Loka and Tala are innumerable hosts of beings. All these Lokas and Talas interpenetrate each other, yet all these beings live in their own worlds and work out their own destiny just as we do here.

The following symbol of a circle partitioned by an S-curve, is said to be of Atlantean origin, and is found everywhere in the Orient, especially in Buddhist countries. The light and dark portions represent the Lokas and Talas; the involution of spirit and the evolution of matter and also the evolution of spirit and the involution of matter; while the circle itself is the Boundless All.



It is one of the most beautiful and meaningful symbols ever devised, and yields much to meditation. The entire cosmological concept of the Lokas and Talas is summed up in it. Let us repeat that our globe has seven Lokas and seven Talas, and each of the other six globes of our planetary chain has a like number. There are two globes on each plane, except in the case of our earth-plane where there is only one. They receive their inflow of energy from the corresponding Lokas and Talas of the Sun. There are seven Suns, but on our plane only one.

Perhaps we should add the point, that Space, which is a concept or abstraction to our thinkers, is ultimate Being, Reality, to this oriental mode of thought. Space is not a container and does not have dimensions. Matter has dimensions, but there is no “fourth dimension of space”, or any other. The three dimensions of matter are all it can possess. But matter has many states or conditions in which it is not perceptible to our senses, tho’ it remains three-dimensional all the while. The concepts of a 4th, 5th and other dimensions can, however, be employed mathematically. The term



'4th dimension' has been used so much (and so senselessly) that many people imagine that it means something and that they have some understanding of it. It is most probable that the discs and other craft will be established in the public mind, either as coming from another planet of our solar system, or from a 4th dimension. *Neither of these opinions is right*, in the view of the present writer. They originate in a three-dimensional world which is as close to us as our own, and which interpenetrates with ours at every point, but which our senses cannot apprehend.

There have been many appearances of these craft in times past, and always mankind has wondered and feared and soon forgotten them. Yet there is just a possibility that this time there will be a few people who will understand what is happening, and who will try to get into communication with these visiting beings and to learn from them. Those of us who wish to profit in this way, must take care not to be misled by pseudo-explanations (perhaps applicable to some single happening but not to others). Or deterred by ridicule, even from learned and distinguished persons. The opportunity is rare and wonderful beyond words, and the future of our civilization may depend on our ability to understand it and employ it for right purposes. Malamala! Let us uphold and spread abroad the Light!

### Concerning "Lost Souls" and "Soulless beings."

"There is an immense difference between lost souls, and soulless beings. A lost soul is one in whom the 'golden thread' uniting the lower thinking entity with its Higher Self is completely ruptured. The case here is virtually hopeless; there can be no more union for that lower self, which at the moment of final rupture commences sinking immediately into the "Eighth Sphere", the so-called "Planet of Death". A soulless being, a soulless man, is one in whom the thread has been worn, so to speak, very thin or rather, where the spiritual and impersonal aspirations in this and other lives have been so few, the attempts to unite with the Higher Self so weak, that slowly the spiritual Ray has been withdrawing itself from the lower part; but it is not yet ruptured completely. Even one single holy and impersonal aspiration may cause reunion. But, it is properly called a soulless being, for the entity lives almost wholly in his lower principles. These are men and women 'without conscience', who seem to have no moral sense, though their mental and psychic faculties still remain strong and keen." G.de P. Op.cit., p.164. ■

## BORDERLANDS

# Books

**SECRET CIPHER OF THE UFONAUTS** by Allen H. Greenfield. Illuminet Press, 128pp, \$9.95. This book purports to validate the rumor that the UFO phenomenon is directly linked to occultism. Subjects treated: Secret Cipher of the UFOnauts Decoded; Richard Shaver and the Mantong Cipher; Meade Layne, Mark Probert, and the Inner Circle; Frater Achad; The Men in Black and Their Magical Origins; Working with the Secret Cipher.

**HOW TO THINK ABOUT WEIRD THINGS — Critical Thinking for a New Age**, by Theodore Schlick, Jr. and Lewis Vaughn with forward by Martin Gardner. Mayfield Publishing, 320pp, \$18.95. May I be so blunt as to say, "What a rip-off!" This book claims to give you step-by-step procedures for evaluating 'extraordinary' claims. In the forward, Martin Gardner says this book "is designed to teach readers how to tell good science from bad." And from the dubious James Randi, "Though the forces of pseudoscience and superstition will continue to manufacture new wonders with which to beguile their eager consumers, their efforts to this point in time must answer the devastating criticism and evidence that this book offers." Sorry, thanks for playing. Indeed, if this book were to help one with the fundamentals of critical thinking while concerning these topics, it would be fine. But, it would seem that great pains were taken to frequently use contextual 'buzzwords' such as, "— is wrong", "— is not true", "vague", "false", "ambiguous", "quackery", and even going so far as to call the reader's thinking "defective" if he/she believes in anything alternative. This is NOT what I call "teaching critical evaluation." The book is no more convincing for the orthodoxy than any other book's claims, and actually, reports quite a lot of DISinformation labeled as fact. I could go on but needn't waste any more of your time. It is quite clear to me that the academicians responsible for this publication truly have something to fear from the alternative scene, or they wouldn't have found it necessary to expend the great effort publishing such a bombastic retort.

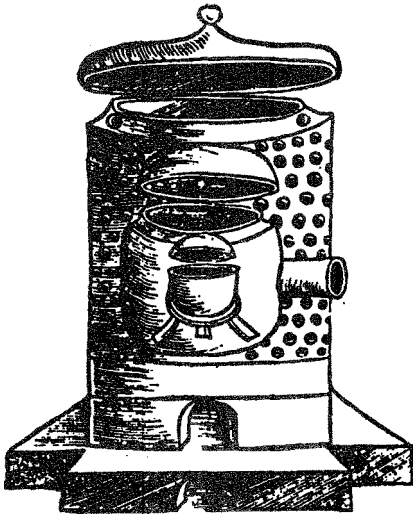
**THE ENLIVENED ROCK POWDERS** by Harvey Lisle. Acres U. S. A., P. O. Box 8800, Metairie, LA 70011, 208pp, \$15.00. The practical side of using rockdusts as fertilizers, compost enrichers, and plant growth enhancers are discussed in this book. Chapters include: The Birth of the Planet; Crystal Power, Rock Power, Living Power, Spiritual Power; Enlivening and Balancing the Soil; Radionic Amplification of Paramagnetic Forces; Biodynamic Forces; Dowsing and more. Pascalite is also dealt with in the book. This is the most authoritative book on the subject of rock powders to date.

**SACRED GEOGRAPHY OF THE ANCIENT GREEKS — Astrological Symbolism in Art, Architecture, and Landscape** by Jean Richer. State University of New York Press, 320pp. An extraordinary and most scholarly tome that provides proof of the existence and explains the significance of planned alignments between classical temples and oracle sites over a wide range of territory. It is a unifying approach to the study of geomancy in the ancient world as a whole.

**STONEHENGE AND THE GREAT PYRAMID: Window on the Universe** by Bonnie Gaunt, 510 Golf Avenue, Jackson, MI 49203. This book should be titled, "Stonehenge, The Bible, and The Great Pyramid," as it centers around the want to prove one by the other. If you are into intensive integer manipulation then this book might be for you.

**THE CURE FOR ALL CANCERS** by Hulda Regehr Clark, Ph.D., N. D. ProMotion Publishing, 511pp, \$19.95. The author concludes that all cancers are caused by a single intestinal parasite. Another "cancer cure" book that although sounding quite far-fetched, appears to be well researched. Check it out for yourself. **MT ■**

*Please send all books for review to:* Managing Editor, **BORDERLANDS**, P. O. Box 220, Bayside, California 95524 USA.



# THE ALCHEMY OF CAPACITANCE

by  
DENNIS KLOCEK

IN my first essay on weak field technology\*, the concept was put forward that the conduction of a copper wire in a cosmic pipe apparatus may have served to dampen down life forces near the apparatus. By

contrasting the technology of conduction with the principles behind the condenser (induction and capacitance), an attempt was made to try to find a reason why certain conduction currents have an adverse effect on life forces.

Much recent research points to these issues when the effects of electromagnetic fields and extremely low frequency energies are studied. Dowsters have been aware of the pathological effects of fields and moving currents for a long time. Dowster research has uncovered a great deal of documented proof that sleeping in a weak field or a current can be a major cause of debility which leads to illness. All currents are considered by dowsters to generate fields. Running water, gas, electricity, even geological fault lines and the crystalline lattice of minerals in the earth radiate weak currents. An organism resting in these currents cannot maintain equilibrium in its life forces because its own field is constantly being disturbed. Even if the disturbance is minuscule compared to modern amperages in electric grids, the constant flow of energies is thought to "wick" away life forces and put the organism under stress when it is supposed to be concentrating its life forces. In effect, this image found in the dowster literature, is an image of conduction (wicking away of current) versus condensing (the alternate induction and capacitance of weak forces into stronger forces). An organism being influenced by such currents becomes brittle and loses its elasticity. Once it has lost its charge of life, it becomes prey to pathogens from the environment. Plants growing above watercourses or lenses of volcanic materials or fault lines often show such signs of stress. Trees growing over an underground stream will die on the side which receives the ether current from the moving water and thrive on the side which does not. Watercourses or changes in the composition of the ground underneath orchards can often be traced by looking at weak or infested trees. Dowstering the area will reveal the presence of a subterranean current. The list of phenomena surrounding conduction currents is endless and available to anyone caring to do a little research. The result from these extensive dowstering experiments is that conduction weakens life

forces.

Ernst Lehrs, in his book **Man or Matter**, supports this view with the assertion that Michael Faraday, himself, was an opponent of the theory of electrical currents as a true picture of the nature of electricity. Lehrs goes on to say that when humans apply electricity to do work that they are really not using electricity proper but only the thermal and magnetic fields which are generated when electricity is consumed by passing through a conductor. The force which runs an appliance or moves the needle on a meter is not electric, but is produced when electricity vanishes. By extension, Lehrs says further, "With the recognition that we have to do with electricity proper only in the case of an electric field exerting its power directly, as in an electroscope, whereas, all other so called electrical processes consist in a consumption of electrical force, it becomes possible to form an adequate picture of the oscillating circuit ... the coupling of a condenser and a coil to put it differently — capacitance with inductance." What Lehrs is describing here is the power of an insulator to accumulate a static charge from a weak field and condense it into a strong charge which gives rise to an electric field. In the condenser, the conductor or coil serves to give rise to a magnetic field by conducting or consuming the electric charge. In this arrangement, the capacitor or condenser causes a weak, but constant charge with no power or current to build by having a dielectric (electricity repelling) substance absorb and hold a charge. The charge is then drawn through an apparatus in the form of a coil which draws off the charge and converts it into a magnetic field. The magnetic field surrounds the dielectric and causes the dielectric to pick up a strong charge. This is then reciprocally discharged back into the coil to keep the cycle going. The elastic oscillation of magnetic into electric back into magnetic forces causes induction to take place in the condenser and coil and greatly increases the power without an increase in conduction. This brings two polar forces into a mutual rhythmic oscillation while the electrical and magnetic forces are not consumed and no lines of magnetic energy are cut or disturbed as is the case with power generation apparatus in use today. This model is the basis for wireless transmission. It is also the basis for the electrostatic capacitance antennas in use for the reception of radio transmissions in automobiles. The effect of the capacitor/coil antenna is to make the transmitter appear closer to the antenna than it actually is. The capacitor amplifies the weak signal and the closed induction circuit makes the signal more resonant as the energies are rhythmically oscillated from condenser to coil.

The concept of the electrostatic capacitance antenna allows us to consider Harvey Lisle's experimental findings about the cosmic pipe from another angle. The cosmic pipe is an attempt to build an electrostatic capacitance antenna in order to bring the signal source (the stars and the sun and planets) closer to the earth. The

\* *Inducing the Urpflanze*, BORDERLANDS, Volume L, Number 3, Third Quarter 1994.

proponents of the cosmic pipe claim that it does just this. There have been accounts brought forward that the cosmic pipe did increase yields for some farmers. In principle, this is quite possible. The basalt powder in the pipe is slightly magnetic. The PVC pipe is dielectric. The oscillating condenser needs a conductor and a dielectric in order to begin the magnetic/electric oscillations needed to condense weak signals. The conductor, however, needs to be wound into a coil and connected to the capacitor in such a way that no current is produced except that which stays within the coil. This is why an antenna which works on these principles of amplification is called an *electrostatic capacitance antenna*. In an electrostatic circuit, a flow of current immediately discharges the whole circuit. Static electricity is a form of electricity which is much closer to the form of electricity found in plant and animal cells than the type of electricity found in the circuits of a house. Static electricity is biological electricity and supports life rather than draining it away. The problem is to design an apparatus to accumulate and store weak electrostatic charges (like a Leyden jar) and distribute them without a flow of current. This was accomplished by earlier civilizations in the construction of earthworks, pyramids, obelisks and temple complexes. The cosmic pipe is a contemporary solution to such sacred architecture. The cosmic pipe, however, includes the fatal prejudice of modern technology with its conduction wire. Conduction equals destruction of the vital essence of electricity. The essence of the electric power vanishes into our toasters and light bulbs. Instead of saving and nurturing and amplifying the primary electrostatic energies given from cosmic sources, modern technology drains away the power through consuming the source. At this point, the question could be asked, "Can the cosmic forces from the stars and planets be attracted and condensed to be stored in the earth in a concentrated form?" If they could, it stands to reason that the plant and animal life might benefit from such activities.

According to researchers like Phillip Callahan in his book, **Ancient Mysteries, Modern Visions**, this was the explicit purpose of those adepts who designed the pyramids and the monks who constructed the round stone towers in Ireland during the flowering of the Celtic Civilizations. Mr. Callahan is an entomologist who has done extensive studies of the formation of insect antennae and their abilities to induct weak field signals. He has also studied the dielectric/paramagnetic properties of stones and stone towers and pyramids from the point of view that they are based on exactly the same principles of construction as the forms found in insect antennae. Mr. Callahan's approachable works have been a strong impetus to pursue research into stone structures for this author.

The purpose of these essays is to bring forward the parameters of this research and to give reference to the materials and construction details of several stone towers built to serve as electrostatic capacity antennas for weak field signals from the sun, moon and planets. These towers were constructed in a garden to condense into the soil the archetypal forces of the cosmos which give rise to plant growth. We wished to induct the *urpflanze*, the primal plant into our garden.

In order to explain the logic behind these towers, however, it could be advantages to discuss the capacitor/inductance function of the oscillating circuit from the point of view of alchemy.

To begin with, we can look at the mineral constituents of stones to try to get a picture of the dynamic present in them. The great majority of rocks in the earth are igneous. Most igneous rocks come from granite sources. Most granites have as their basis the mineral, silica. The process by which silica manifests in the world is by crystallizing out of a fluid matrix. The formation of a crystal out of a fluid matrix is known as the salt process. Alchemically, the salt process is considered to begin in the cosmos as light streams into the fluid parts of the earth. The character of the crystal formation is pictured as a gradual centripetal movement of an infinity of planes moving through space from an infinitely distant sphere. Where the planes meet and penetrate into each other, lines emerge which form the axes of crystals. Where three or more planes meet,

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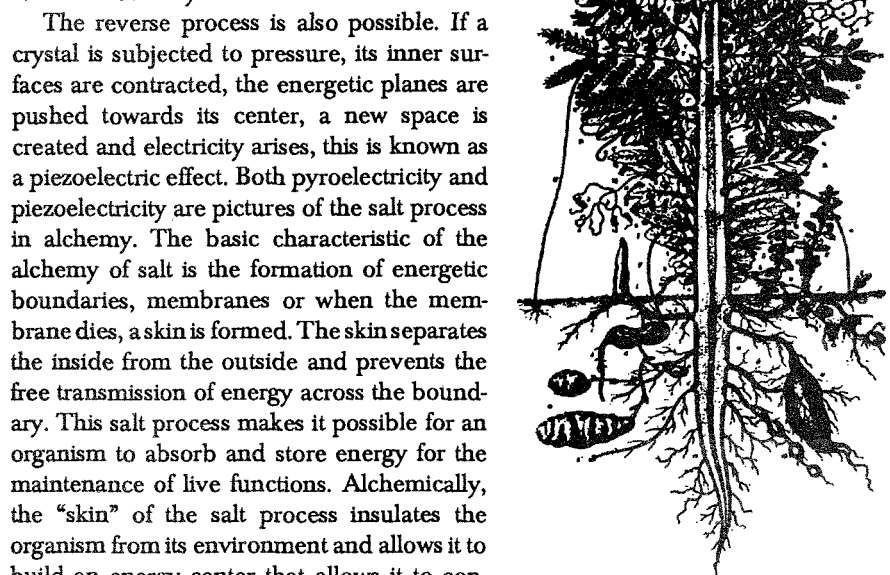
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a space is created into which substance can enter. Alchemically, the crystal exists first as a field of tension from the cosmos, only later does the substance of the crystal migrate into the field of planar forces. This image of the crystal originating in a field of forces can explain the presence of the curious "ghost" crystals sometimes seen within large quartz or amethyst crystals. The layers inside the crystal are the planes of the crystal lattice which is created by the energetic tensions in the field of planes. The planes in the crystal are like sensitive membranes capable of absorbing energies. This function is at the root of the strong electrical effects possessed by quartz crystals. A crystal which is heated, gives off electricity as a pyroelectric effect. A crystal expands under heat and its membranes shift position outward. This puts the "finished" crystal into a more youthful condition alchemically, that is it exists in a where its salt process resembles its original state of expansion. This creates a new space in energetic planes and energy pours into the crystal in the form of electricity.



The *Urpflanze*, the archetypal plant from which all plantlife springs.

The reverse process is also possible. If a crystal is subjected to pressure, its inner surfaces are contracted, the energetic planes are pushed towards its center, a new space is created and electricity arises, this is known as a piezoelectric effect. Both pyroelectricity and piezoelectricity are pictures of the salt process in alchemy. The basic characteristic of the alchemy of salt is the formation of energetic boundaries, membranes or when the membrane dies, a skin is formed. The skin separates the inside from the outside and prevents the free transmission of energy across the boundary. This salt process makes it possible for an organism to absorb and store energy for the maintenance of live functions. Alchemically, the "skin" of the salt process insulates the organism from its environment and allows it to build an energy center that allows it to condense its energy into a gradient that is higher than its environment and also to regulate the balance by electrically altering the constitution of the skin or membrane in osmosis. This last insulative and condensing property of the skin formation in the salt process of the silicates has application in the formation of an electrostatic condensing antenna. Most condensers use outer and inner conduction/inducting plates made of a metal with a dielectric (insulator) between them. The dielectric in the Leyden jar is glass. Through experiment, it has been found that the charge in the Leyden jar does not occur on the conductor/inductor plates because conduction equals discharge. The charge gathers in voltage on either side of the glass dielectric and is held there by the capacitance or capacity of the glass to absorb the charge without conduction. The glass dielectric allows the charge to build that is conducted to it by the metal plates. Alchemically, the flowing of the current through the plates is the polarity of the repulsion and insulative capacity of the glass. The glass membrane holds and balances the charges on either side and allows weak static electricity charges to build up

tremendous voltages or pressures. In the electrostatic capacitance antenna, the capacitor is made of glass or the mineral mica which is a silicate with many fine membranes which compose its structure. These insulators pick up weak charges coming into the antenna and, by resisting them through the dielectric insulating properties of silica, the weak signals (charges) build in voltage. The voltage creates an electric field which rays out around the dielectric and into a small coil which picks up the electricity and amplifies it in the turns of the coil. This movement generates a magnetic field near the wires of the coil and this field bathes the dielectric capacitor (silica)

in a magnetic field which the crystals respond to by absorbing and transforming into more electricity. The rhythm of the alternation between the insulator and the induction of the coil sets up the activity of condensing the energy from weak fields to strong pressures. This is done because there is no true conduction in the coil to wick away the building force in the condenser, so the effect is electrostatic.

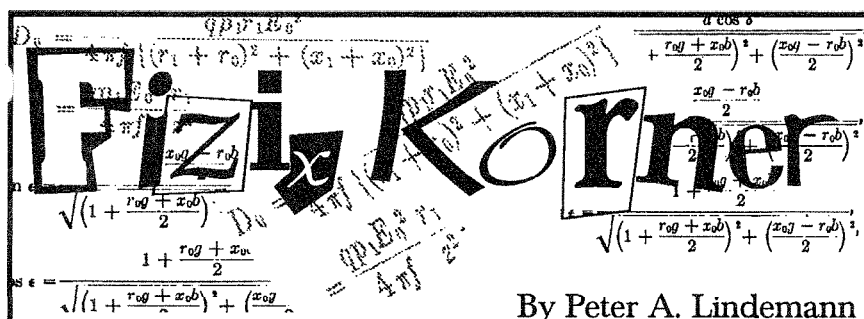
Alchemically, the dielectric is the salt component or "dry" side of the capacitance antenna. The coil or the "moist" side of the antenna is the "moist" because there is a flowing of energies taking place there. It is very significant that the dry/salt side of the capacitor is involved in the production of an electric/dielectric field and the "moist" sulfur side of the capacitor creates a magnetic field through the coil. The "moist" sulfur quality is alchemically generated from a central point in space in contrast to the peripherally centered energies of the salt process. From this central point, the energies flow out in radiating lines into the space around the central point. The important movements in a sulfur or combustion process is linear as opposed to planar movement found in the salt process.

The physiological equivalent to the sulfur process is digestion. In digestion, substance is consumed. In the electrostatic capacitance antenna, the coil is the sulfur aspect of the circuit. Through the linear coil of wire, electricity flows and is consumed in the equivalent of a digestive

process. In a normal circuit, the consumed electricity produces power, heat and magnetism. In the capacitance antenna, the flow is never so great so as to produce power or heat. The electricity is only partially digested into magnetism. The magnetic field from the coil then is spread over the salt side of the circuit where the silica forms an insulator that reacts to the magnetic field by producing electricity. This is the equivalent of the physiological process of thinking where flowing growth energies are controlled and directed into the inner life of thinking. Rampant growth is checked so that the power can be built into images made of inner light.

For a brilliant detailed analysis of these ideas, the reader is referred to the chapter on Radiant Matter in Ernst Lehrs book **Man or Matter**. For the purpose of this essay, these alchemical ideas can serve as a round point to discuss the role of the mineral in stone structures made for the purpose of acting as stone electrostatic capacitance antennas. ■





By Peter A. Lindemann

I first became interested in "free energy" in the summer of 1973. I was on a bus trip from Milwaukee, Wisconsin to Ann Arbor, Michigan. As bus trips go, it turned out rather exciting. At a rest stop just outside of Battle Creek, I saw a curious little newspaper on the stand. The headline read: "Man Creates Engine That Consumes No Fuel; Invention Could Change History by 1984." I bought the paper. I was 22 and very easy to impress.

The paper was the National Tattler, and the article was written by the now famous Tom Valentine. It told the story of Edwin Gray and his marvelous inventions. Although his fuel-less engine got most of the attention, I was fascinated by his little solid-state circuit. The article describes how a small 15-amp motorcycle battery was hooked up to a pair of capacitors that, in turn, were connected to a panel of outlets. A switch was thrown, and the capacitors were charged from the battery. Next, six 15-watt electric light bulbs were plugged into the outlet panel, along with a TV and two radios. The bulbs burned brightly, the television played and both radios blared and yet, the small battery was not discharging. "You couldn't begin to get all this current out of that battery under ordinary circumstances," Gray said. At the end of the article, Gray was quoted as saying, "You know, to light this bulb takes millions of dollars in power plant facilities, transmission lines and circuitry. With my capacitors, I can provide power to any home for a couple hundred dollars." Tom Valentine ended the article by saying "The economic impact of that statement is beyond the imagination..." Right!

I wrote to Mr. Gray and asked for more information. His wife wrote back saying that due to security concerns, no more information could be given than was already in the articles. I moved to Hawaii.

By 1979, I had tracked down a copy of Gray's US patent, #3,890,548, which discloses his engine, but says nothing about the solid-state circuit. I had also found and spoken with two people in southern California who knew Gray in the early 1970's and had seen the solid-state circuit work. By this time, Gray and his marvelous inventions had disappeared.

Twenty-one years later, I think I am beginning to understand what Gray was doing. In my energy files, this project has been called "Circuit to multiply the effect of battery storage." Over the years, I have played around with a number of circuit designs. None of them seemed to embody a simple, understandable principle able to perform the way Gray's system did. Then, last year, I attended the Extraordinary Sciences Conference in Colorado Springs. In the bookstore, I bought a small booklet called "The Energy Conserver Method, Book 1", by George Wiseman. I missed George's talk at the conference, but the book seemed to cover the same material. When I got home, I put the book in a pile (file). At the time, I was

busy perfecting my MWO research and didn't have time to think about it. It stayed there for 9 months.

Then this spring, I dug out the little book again and read it over and over. What George was saying finally began to sink in. The circuits were simple, made up of batteries, capacitors, switches, and loads. On page 17 of this booklet is a section called Efficiency Experiment. The bottom line was this. In one set of experiments, his test setup without the "Energy Conserver" capacitors in

place could pump 1119 grams of water for one turn of a watt-hour meter. When the "Energy Conserver" capacitors were in place, he was able to pump 1901 grams of water for one turn of the watt-hour meter. In another example, he could pump 1026 grams of water without the capacitors in circuit, and 1762 grams of water with the capacitors in circuit, for one turn of the watt-hour meter. The first example shows a 70% gain in work over a conventional running of the pump! The second example shows a 72% gain. Could it be this easy? I read the book again.

His simplest demonstration circuit is described on page 8 and is reproduced here as Figure 1. It consists of a battery, a load, a capacitor, and two switches. It runs like this. The battery is used to charge the capacitor and drive the load at the same time (load and capacitor in series). When the voltage in the capacitor equals the voltage coming from the battery, the cycle stops. At this point he has pumped 60 grams of water and has a fully charged capacitor. Then the battery is disconnected from the circuit and the capacitor is discharged through the load by changing the switches. When the capacitor is fully discharged he has pumped 60 more grams of water. This silly little circuit shows a 100% gain in work over running the pump directly from the battery! OK, OK, I was ready to consider "Energy Conserver Method" theory.

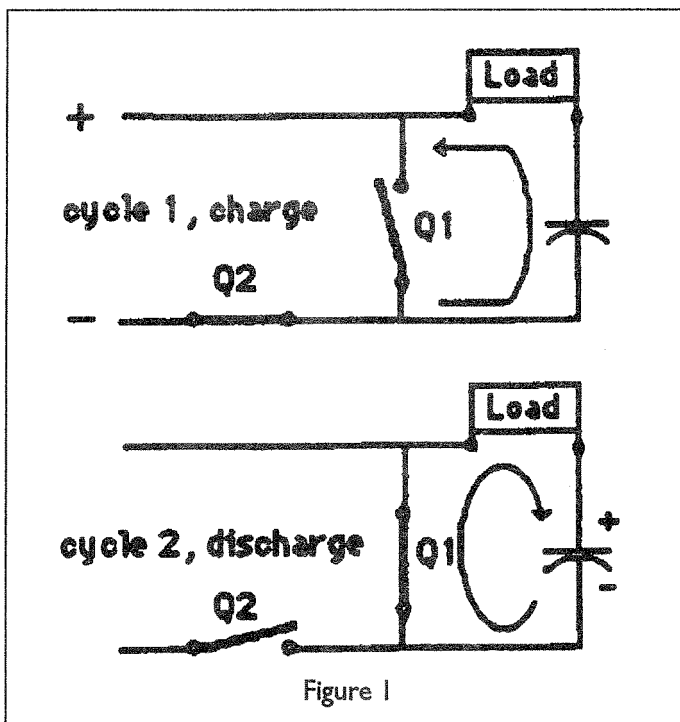


Figure 1

In a nutshell, the theory goes like this. Energy is NOT consumed by the load. Energy is only lost when SOURCES of energy neutralize themselves. Even a resistance does not use up power, it only controls how quickly the current will move through the circuit. This is certainly not conventional thinking. George's proofs of his theory are pretty convincing. For instance, in Figure 1, the total amount of work, measured on a watt-hour meter, is the same for charging the capacitor with or without the load in series. The only difference is how long it takes to transfer the charge, because the load acts to restrict the current flow. On the charging phase, one "capacitor charge" worth of power is neutralized in the battery. Neither voltage nor current is "lost" driving the load on the charging phase and 100% of the energy is conserved in the capacitor! On the discharge phase, the load is powered again and then the energy is "lost" when the capacitor neutralizes itself. The energy is used twice before it is lost, but the load never "consumed" any of the power. This interpretation of energy use is revolutionary in its implications.

In Figure 2, George proposes a circuit with some new twists. By using two capacitors instead of one, the capacitors can be charged in the first half of the cycle and the battery can be charged in the second half of the cycle. This is accomplished by charging the capacitors while they are wired in parallel (a+b) and discharging them after they are switched to a series connection (c+d). By cycling the system faster than the capacitors can fully charge or discharge, this circuit can deliver a constant 3 volts @ 40 milliamps to power

his pump, drawing power from the battery one-third of the time and charging the battery two-thirds of the time. Logic would immediately dictate that this is impossible, but it is what the meters say. Is this 120 milliwatts of Free Energy? Even George admits, its too early to say. Not enough research has been done yet to determine the chemical condition of the battery after the circuit has run for a long period of time. Most of these pulse charge type circuits eat the batteries up because the voltage of the charging pulse is too high. This one looks much more benign, however, because the charging pulse is only 3 volts above the nominal 12 volt battery voltage. Time will tell.

In the course of some telephone conversations I had with George Wiseman, I thought of this circuit, shown as Figure 3. It works like this. A battery, two capacitors and a load are placed in series. The battery is connected to the circuit through a pair of relays so the polarity of the battery terminals can be reversed. A means is provided to charge one of the capacitors up to the battery voltage, in this case, switch S. Switch S is closed to charge C1 up to battery voltage and then left open during the running of the circuit. At this point, C1 is charged to battery voltage and C2 is at 0 volts. When the battery terminals are reversed, the load "sees" twice the battery voltage as C1 discharges and C2 charges. At the end of this cycle, C1 has 0 volts and C2 has battery voltage. At this point, the relays can flip the battery polarity and run the cycle back to the starting place. Since current in the circuit is the same at all locations, the load is provided with twice as much power per pulse

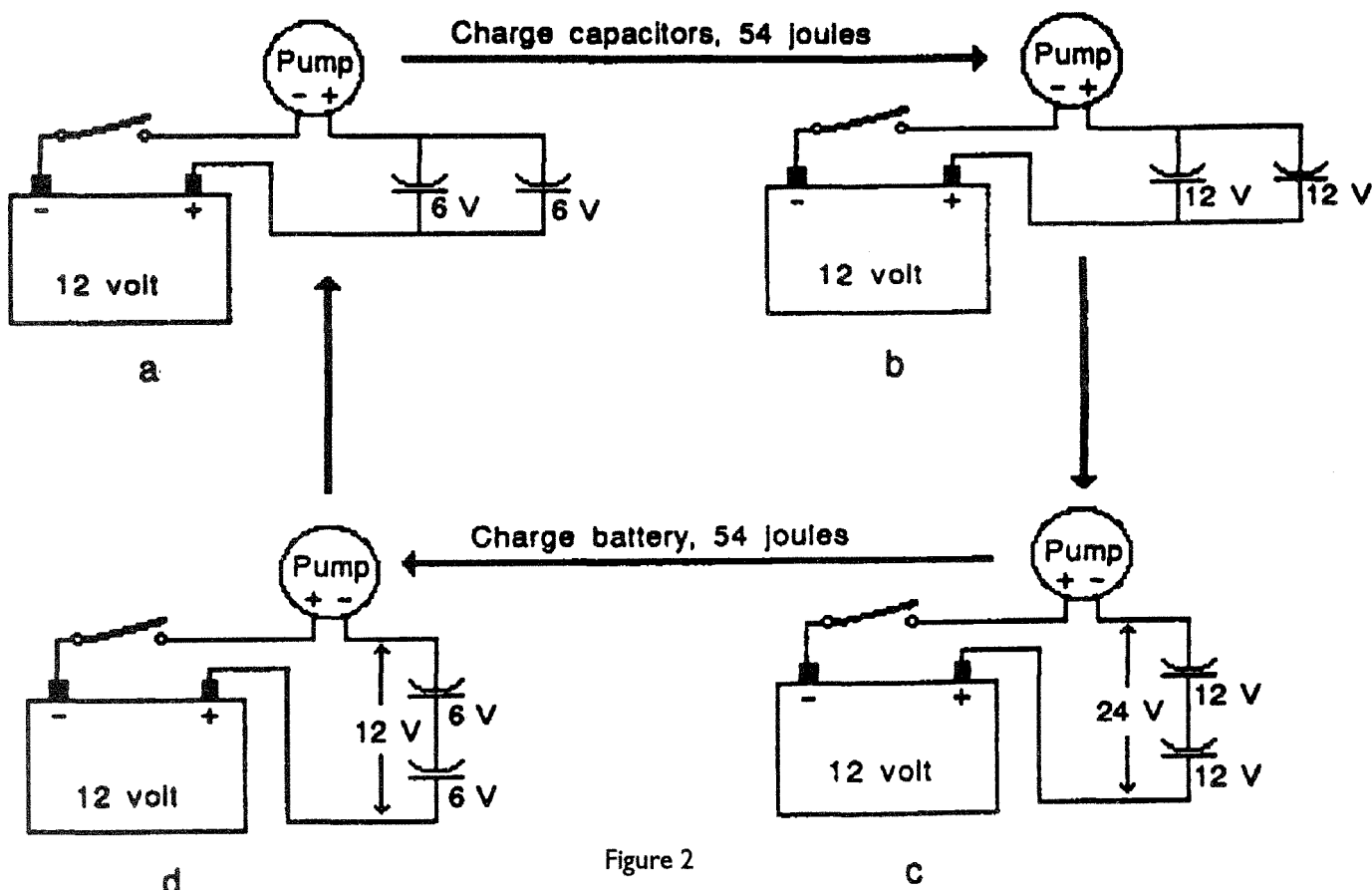


Figure 2

as is removed from the battery. In this way, the energy stored in the capacitors can be recycled through the load an endless number of times while the battery discharges at half the rate of work delivered.

This type of circuit is very interesting to contemplate. For each cycle, the battery is neutralized by that amount of power needed to charge one capacitor. Conversely, the output device sees the combination of the charged capacitor and the battery as its voltage source. If this output device were a transformer, it might be possible to return enough of the power from the secondary side to the battery at appropriate voltages to keep it charged and still have about 45% of the power remaining to drive a load like a motor or a light. Anyone wishing to experiment with this circuit is free to do so. This circuit looks like it can draw power from a battery at 200% efficiency or better and be cycled much faster than the circuit in Figure 1. When capacitance of the capacitors, inductance of the transformer and frequency of operation are all matched, the system should go into resonance and allow a matched load to operate at the best efficiency. Make sure you use capacitors capable of AC operation.

From the report on Ed Gray's system, it looks like he could deliver over 100 watts of power without discharging the battery. To date, that is 800 times more power than George Wiseman's 120 milliwatt circuit. However, there are some very important discoveries here. First and foremost is the discovery that "loads" do not consume electricity. They may need a specific voltage potential across them to run, but they do not usually create the condition whereby the voltage is lost. Circuits have been demonstrated where the voltage can be RECYCLED and used again, like the circuit shown in Figure 1. Some solid-state devices, like diodes, do exhibit a voltage drop and may represent real potential loss, but more research needs to be done in this area. If MOSFET devices are used in these circuits, the power required to control them is very low and the voltage drop in the power circuit is close to zero. Up until now, most of the preliminary work on these circuits have used mechanical relays.

Anyone interested in this new direction in Free Energy research should buy the books that George Wiseman has written explaining his theories and experiments. George has graciously offered a special discount to Borderland members of \$12 per book, postage paid. Write to: Eagle Research, Box 145, Eastport, ID USA 83826. Order both: **The Energy Conserver Method — Book 1** and **The Energy Conserver Method — Book 2**, and say you heard about them through *Borderlands*. It might be the best \$24 you ever spend! (If ordering from outside of North America, please

add a few more \$ to cover the cost of international postage.)

I'd like to close with a few words on Free Energy. Until now, most Free Energy research in the electrical field has focused on new sources; that is, unique and unusual generator designs. Most of the ones that work, like the N-machine, need to be fairly large before their efficiency is high enough to realize the energy gain. George Wiseman has demonstrated systems that appear to show energy gains at very low rates while running on conventional sources like an ordinary battery. He has successfully run motors and light bulbs while charging a battery and it works the same way each time he sets it up. If loads do not consume electricity, as we have all thought, then all the work coming from all output devices, like light bulbs, motors and heaters, is FREE. The problem has been that conventional circuits are designed to throw away the energy right after they

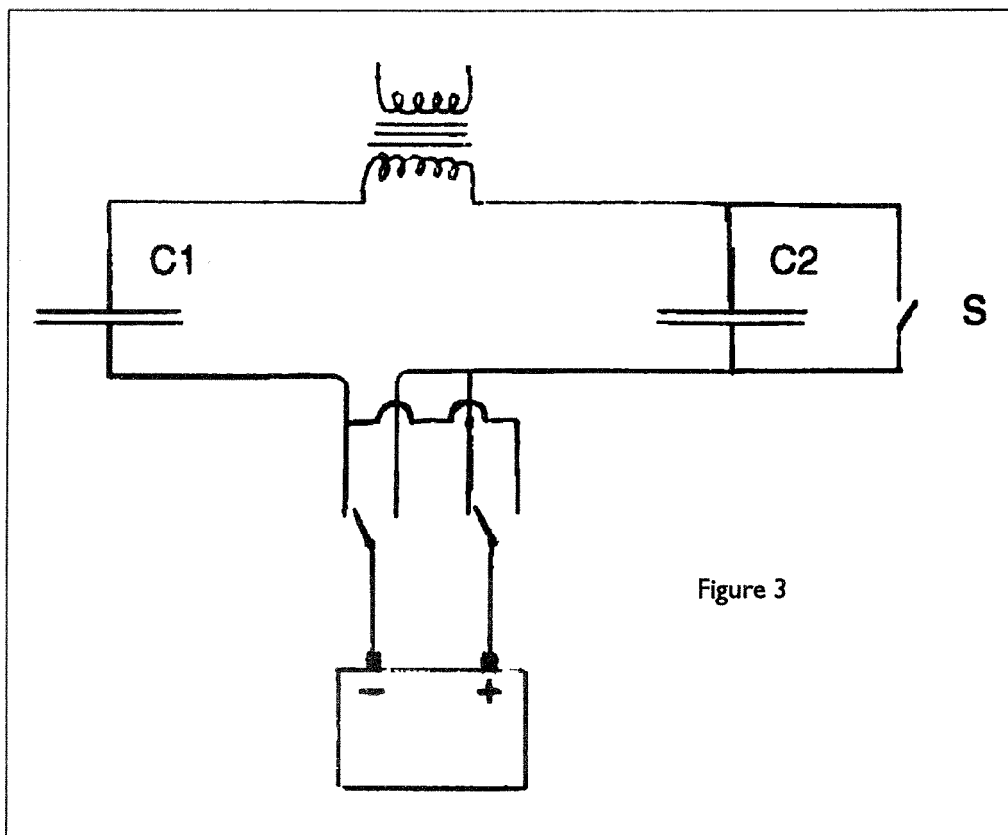


Figure 3

liberate the Free Energy effects in the load. If George is right, and electricity can be recycled and used again before it is lost, a whole new chapter has been opened in Free Energy research. I am hoping that this article will stimulate other researchers to look into George Wiseman's discoveries. ■

**P**ETER LINDEMANN became interested in alternative energy and health technologies in 1973. He joined BSRF in 1975, studying Radionics, Bio-circuits, Implosion, and related subjects. His first article was published in *BORDERLANDS* in 1986 on ELF devices. In 1988, he joined the Board of Directors of BSRF as well as helped supervise research at Borderlands Labs. Since that time, he has written 14 Fizix Korner columns, and contributed numerous articles on MWO research, Radionics, and Free Energy.



What does the term "eidetic" refer? What is "eidetic space"? Why does Quantitative Science view eidetic space as the absolute world infrastructure? What is "eidetic geocentrism"? Why are all ancient world models so diametrically opposed to those of modern quantitative science? Is the only difference between ancient and modern sciences one of instrumental perfections and measurements? These several questions must be first addressed before any real qualitative world comprehension can be organized and called "scientific".

### FIRST WORLD EXPERIENCE

First world experience occurs in earliest infancy. Infants are incapable of properly discerning through their yet awakening five senses. Pure ideational space is experienced directly by newborn babies in a mysterious manner requiring qualitative examinations. The harsh babble of the ordinary sensors is a frightening confusion to babies. As infants, we rely on a very special sensorium for our experience... a world generalizing guidance whose presence remains our private and personal tutor throughout life.

The mysterious external agency of which we speak is a suffusive sensorial space. This sensorial space fills the experience of infants and young children, and is the "lost world" for which adults search.

Most of us lose touch with this quiet and comforting sensorium as we grow older.

We are progressively and slowly ensnared in a world of physical rigidities as world survival demands more physically focussed attention. We find ourselves deceptively alone, while our "lost world" remains a dream...a breath away. The only moment an infant's eyes focus upon an object is when we invade their sensorial space with something bright. The infant may focus upon such an object for a few seconds and then defocus into sensorial reverie. Into what space is an infant's awareness then defocussed?

Awareness is a directed phenomenon: a rayic phenomenon. Awareness does not appear and disappear. Awareness is focussed into and out of various mutually permeative co-existent sensorial spaces. In this regard there is no "internal-external" distinction. Experience is a flow of focalized awareness among diverse and co-existent spaces. Infant attentions do not "advance" into the external world and then "retreat" into an internal world. Infant attentions focus into and out of various spaces in which they have freedom of movement.

Attention modifications appear with progressive maturation. In late infancy the attention gradually begins to focus upon objects,

but translates effortlessly into the imaginal reveries common to another co-existent space. This ideational transparency of objects makes childhood's experience. The ability to translate through material objects of the physical world and travel effortlessly into ideational worlds evidences a forgotten human sense. This unstudied phenomenon reveals remarkable details which can only be examined qualitatively.

The attention space-focussing phenomenon demands new considerations of more ancient scientific comprehensions. The entire notion of ideational foci and directions requires the space permeating presence of viewlines, which objects radiate and percipients receive. The ideational passage of any percipient's gaze evidences very defined directions and ... viewlines ... which are projected among percipient and perceived. These projective viewlines emanate from both percipient gaze and objects (Platon, Aristotle, Mesmer, Russ, Joire, Pavlita, Constable).

Certain objects evidence ideational indices of diffraction. There are certain angles through which a material is exceedingly opaque...or transparent to ideational lines. In our experience this becomes an effortless passage into thought or emotion when gazing upon an object. Calm individuals are able to sense more of the ideational passages among objects than stressed individuals. But while there are effects caused by percipient stress states, there are objects which auto-stimulate the ideational translation despite the percipient.

There are certain

materials, forms, and configurations which become idea-transparent with great rapidity. Only a slight glance across certain objects produce is sufficient to initiate the ideational translation of experience. One ceases sensing the object itself and experiences a thought-vision-dream fantasy: the ideational flux. We each experience this so continuously that we have forgotten to recognize its essential meaning.

Notable materials are extremely opaque to ideational translations. These materials evidence powerful resistance to ideational translations. Such materials may actually block thought throughout a given space. Insufficiently studied or appreciated by the insensitives, these materials wreak havoc in their architectural proliferation. Elemental lead, lead paints, baked bricks, artificial fountains, and artificial waterfalls ... are each opaque to auric perception (Beasse).

In adulthood the attentional focus evidences reversed orientation because of survival needs. Mature individuals focus primarily upon physical (inertial) space. Only when time and luxury permit do such individuals indulge their ideational focus. Rigidified and quantitatively dogmatic academes consciously strive to deny the ideational experience ... with increasing failure.





## AURIC PERCEPTION

Auric emanations are the primary agents of perception. Light is not the primary sense connective agency. Totally sense blocked percipients are able to avoid obstacles by this agency. Sensitive persons can discover lost or well hidden objects through auric sense. Absolute blackened room observations reveal the natural auric radiance of percipients and objects (Reichenbach). Certain special arrangements involving iron plates and organic matter produce heightened illuminations among percipients and objects (Reich, Theroux).

There are volumes in the indelible historic bibliography which readers may obtain and study for themselves in ascertaining these realities. The main theme of all qualitative research centers upon subjective perception. What they each teach us is that perception is an auric phenomenon.

The aura supplies the outward sense organs with their receptive potential. Consciousness, vitality, expanded awareness, heightened sensation, and bilocal experience is auric in nature. The aura is not simply a glowing, thready structure which can be observed and studied; it is the experiencing essence. The aura is being. All things evidence their own auric structure. All auric structures evidence consciousness and sensual interactivity.

The auric anatomy differs completely from physiology. Research evidences prove that auric anatomy supports physiological process (Reichenbach, Starr White, Abrams, Kilner, Drown, Reich). Physiology warps and resists auric anatomy, distorting pure auric projectivity. Auric projectivity extends individual identity among the ordained auric world distributions; extending experience beyond self.

Most persons are unschooled in comprehending their own impressions. Difficulty is encountered because our world is a flood of impressions, moods, thoughts, conceptions, tones, and forms. We are wholly immersed in sensual floods from our first waking instant and have never been properly instructed to recognize our identity apart from suffusive environmental projections.

Externally projected permeations accrete to our physiologies and remain with us for extended periods of time. We gradually and erroneously assume these accretions to be our identities. Such familiar experiential "enclosures" are often the source of much personal woe, especially when suddenly and traumatically removed.

Grounding the body by simply grasping deep sunk iron poles removes most of these emotional "familiaris". It is during this time period that we recognize our identity among all the incoming perceptual floods. We begin to become fully functioning human beings when the "eye" of identity finally recognizes perceptions as external projections; and itself as distinct from the external flood.

Inertial space resists all auric projectivity. Inertialization permeates physiologies and promotes illness. Illness increasingly blocks and abnormally distends auric projectivity; generally reorganizing and deranging normal physiological sensation. When physiological derangements are severe then auric distortions are equally distorted and focussed in specific strange ways. Ill persons may suddenly see auric rainbows and experience synaesthesia phenomena (Reichenbach).

Severe physiological damage does effect auric derangements. The effects are quasi optical in nature. Auric projections are

occluded, refracted, and pattern deranged in damaged tissues. Auric derangements reveals the separability of physiological sensors and auric perception. Unfortunate stroke victims may see objects, and not recognize what they see. This contrast evidences the difference between light, the eye, and comprehension. The aura is perception and comprehension. Sense organs are subservient to the aura.

Inertial blockages do increase with age, requiring successive and continual dissolutions. There are radionic apparatus by which the inertial accretive process is disannulled. Unfortunately, physiologically accreted inertial blocks have successfully submerged the fundamental eidetic perceptive mode in most adults. The eidetic flood is submerged because adult percipients are forced by their blocks to focus more strongly on the inertia limited perception. Adults are completely occupied with the surficial world of limited perception which no experiential penetration dissolves.

The submerged eidetic flood is viewed as if through a muted multi colored glass. Eidetic imagery is dimly viewed as dark imagery. When some individuals are ill their misperception of orderly eidetic imagery produces uncomfortable frights. Such "dark" imagery is referred to as "hallucinatory". The background eidetic flood informs, guides, comforts, and warns the individual of things to come.

The eidetic flood suffuses normal vision at times of physical weakness; indicating the dominance of inertial perceptions during the day. The "dark veil" which sometimes covers our normal vision during exertions is part of the eidetic flood. When people grow weary and faint they ... "black out". Eidetic visions often flood the blackness of the "black out" phenomenon and exhilarate the individual. There are those who, remembering this eidetic vibrance, forever seek ways to enjoin it again. Normal perception blocks the secret for which such persons thirst forever afterward. They have seen a deeper world and are its devoted prisoners.

The aura is fundamental connectivity with the environment, giving connectivity at such a fundamental level that we recognize a world structure which is aurically composed. Examination of the aura and its content does not proceed very long before translations occur between strict quantitative measurement and experiential reception.

Quantitative science never recognizes the perceptual content of the energies which it so precisely measures. Quantitative science treats perception in inertial terms; with thoughts and emotions becoming mere energetic exchanges, lacking meaningful content. This singular clue reveals the partiality and limitation of quantitative science as a world interpretive tool.

Quantitative Science recognizes that measured rays of energy are inertial sheaths containing auri-perceptual information. The core of most energetic beams is a thready auric ray whose perceptual information infuses the examiner's perception with impressions: emotions, moods, thoughts forms, visions, and associations. These are virtually impossible to "shield out" during ordinary quantitative measurement, progressively permeating examiners with ever strong impressions.

Sensitive researchers find that each experimental apparatus in will project such perceptually loaded auric threads that merely approaching the laboratory room is sufficient to stimulate the reception of distinct impressions. It is only the hardened insensitive

pre disposition of quantitative science which prevents such perceptual information to become "part" of observational accounts.

The most modern reemergence of the eidetic space presence took place when sensitive researchers examined personal experience and recognized personal response in focussed ideational spaces. The introduction of laboratory components into this study produced RADIONICS: the study of ideational space, its properties among materials, and its permeative effect in human experience.

It was discovered in this century that specific components could actually magnify and clarify these perceptual rays above their background, effecting overwhelming recognition in percipients (Abrams, Tesla, Eeman, Drown). Visceral impressions were successfully transmitted through space with aeriads and radionic tuners, effecting measurable visceral responses in recipient (Abrams). Conditions of health or illness could be pattern stored in capacitors for hours (Abrams).

Quantitative science does not recognize or distinguish apparatus surrounding perceptual impressions, failing to separate them among their numerous impressions and identity. Nevertheless, we recognize and distinguish the parts of our environment with sufficient acuity to isolate our own identity from "sudden and alien" impressions. Sudden or alien impressions come to our conscious awareness when we approach specific objects, locales, or persons. The reflex after this recognition is a learned response to the sudden perceived recognition.

### AURIC CONTENT

Ideations permeate the physical world and are inseparably fused with each perception. Matter is infused with ideations. The astonishing truth is that ideations do not vary among their objects with time. This ideational space was once called "dream space, fantasy world, or mythological space". We have referred to ideational space as eidetic space. Any academe who asserts success in ripping the ideational space away from physical space is a liar. To maintain dogmatic superiority of physical space over eidetic space is a lie. The two spaces co-exist.

Experience is the measure of world reality. Simple consideration of one's own experience highlights the ever presence of ideations which accompany every perception. There are no perceptions without their attendant ideations. It is remarkable that modernists, eager to expand their mentality, fail to recognize and realize the startling importance of this perception-attendant conscious flood. Ideational energy permeates the physical world structure.

Modernists have satisfied themselves that ideation is simply an "internal" reverberation among externally stimulated experiential associations. Modernists view the "internality" of experience as a reverberation of all previous experiences under external activation. They carelessly and conveniently fail to cite the unexpected instances in which our "internal reverberations" are absolutely new, distinct, and alien to all previous experience!

The ideational suffusion represents the "forgotten" eidetic space. The realization of these truths demands that scientific investigation become increasingly more qualitative. The attempt to eradicate the eidetic space experience from consciousness requires the eradication of the greater portion of consciousness. The

complete eradication of ideational space is impossible. Consciousness is a continual focussing among various eidetic spaces which permeate the physical world.

It is possible to condition individuals into accepting a non-experiential science ... but only when sufficient dogmatic consent is socially achieved among a consortium. The driving force behind this "consent" is all too often bureaucratic-authoritarian with the element of money providing the final decisive thrust. The limited "science" which then develops among these sense-blind individuals is progressively less experiential, more inertial, and insufficient to meet the truest human needs.

There is evidence that severe attention-sense modifications occur among academes who deny their ideational experience. Awareness never disappears. Consciousness is eternal. Awareness is focussed among co-existent experiential spaces. The focus of a quantitative scientist is limited in passage from the physical ... into the inertial world. This change in academic focus was consolidated during the Late Victorian Period.

Quantitative Science became quantitative science by eradicating the "validity" of subjective impressions. This dogmatic assent among the academes was, of course, completely erroneous in principle. Based upon obviously flawed philosophical foundations, quantitative science nevertheless appeals to a human vanity: the vanity of self-existence and self-sufficiency. Autonomy is the central theme of every quantitative model.

While quantitative science treats ideational or eidetic space as an "internal" reverie, Quantitative Science comprehends its more startling dimensions. Eidetic space experience evidences consistent modifications when individuals change attentive positions and locales. Individuals receive impressions which evidence the externality of eidetic space. Continual empirical evidence produces a mappable eidetic space-distribution which remain fixed in ground-locations for centuries.

The eidetic currents convey meaningful perception throughout the physical world. Specific eidetic mood and imagery are historically linked to specific grounds. Eidetic space is an external agency whose presence is world permeating. Further research has shown that permeating eidetic space actually generates and sustains the physical world. Changes in eidetic space produce corresponding changes in the physical world. The permeating eidetic world structure exists as innumerable currents throughout geological structure.

What is the means by which we can empirically test eidetic space for such time-place fixed indices? What prompts our focussed attention more deeply into immediate reality? What draws us "into" matter? What is it which causes us to transit from mere sense-observation into thought and vision? What are we perceiving when we temporarily escape the attention rigidifying focus of our immediate surroundings and "see deeply hidden realities"? Where does our attention "go" when perceiving abstractly?

Not much time is required when gazing at any object before thoughts begin their corresponding "chorale" in our experience. Sense perception does not occur in a thoughtless vacuum. Sense perception is forever accompanied by a chorale of thoughts, moods, associations, memories, and imaginal visions. Objects not only have surficial appearance, but also project equally experiential streams of thought, vision, and mood.

It is found that specific objects consistently project concisely similar eidetic impressions when approached, viewed, or handled. So concise are these impressions that they defy those who term them "internalized memories and associations". New art objects often evoke sudden completely unfamiliar experiences ... experiences which are not mere combinations of remembered associations. Such exotic and alien experiences evidence receipt of entirely unknown qualities; qualities which did not formerly exist in our experience.

The very reason why we seek new things continually evidences a continual thirst for new, rare, exotic, and alien qualities. When encountered in objects these unfamiliar qualities stimulate sudden receptions of thought currents which are equally new and unrecognizable.

### AURIC DEVELOPMENT

The process of experience is a progressively developing communion with externally disposed world arrangements. Experience begins with specific synaesthesis receptions which permeate the world exposed newborn. Newborn infants are completely absorbed into this eidetic flow for weeks before they ever notice apparent world objects. The eidetic flow is a soothing, comforting, suffusion which gives order and guidance throughout experiential development.

With attention modifications (between physical and eidetic spaces) come sudden auri-physiological changes. Individuals who are suddenly focussed into ideational space are easily recognized by their sudden waking eye movements. Eye movements resembling those encountered in REM sleep have been observed in those who enter the "imaginal thought" of ideational space. Ideational space receptions exceed information conveyed through the ordinary perceptual sensors. Ideational space is what we term EIDETIC SPACE.

Infants experience the whole world panorama through succinct points, whose sensual discharges infuse them with generalized locale familiarity. The sources of these receptions are specific environment points which discharge sense loaded auric projections.

Auric discharges of this kind progress into space and ground in natural pulsations, being blurry "synaesthesis generalizations" of their projective sources. These kinds of discharges are thready currents, having raylike characteristics. They naturally seem to move into the ground where they are best conducted. Their content reveals them to represent environment summational characteristics. One may receive these currents from specific points in a panorama, become instantly familiar in a generalized way with the locale. Infants are in fusion with this "blurry" variety of sensual currents.

Infants gradually gain perception of specific environmental objects. Space is sensual, a flood of sensual delights which blend and permute. Experience is the measure of sensual space phenomena and dynamics. Experience is not the mere stimulated perception of environments without their attendant flood of thoughts, emotions, images, and associations. The attendant eidetic flood is just as much of the world reality as are world objects. The experiential "choral accompaniment" in which we are continually suffused is not merely an "internal" neurologically related phenomenon.

enon.

The experiential "choral accompaniment" permeates our experience because it is the fundamental environment which continues to permeate the world structure. The eidetic flood generates and sustains the world structure. Environmental ground evidences the most intense eidetic currents, which flow through specific materials with special force and clarity. Ancient sensitives and modern radionists have recognized that specific materials conduct, focus, and direct eidetic currents; while others occlude, distort, or disperse them.

No material or agency completely stops the pleasurable eidetic flow from the natural environment in which it moves as current through our own being. Despite daytime social rule, eidetic imagery bursts forth as...daydreams. Daydreams are never recognized for what they truly are: bilocal auric perceptions projected into the percipient from some local groundpoint. It is amazing that we never notice that daydreams do take us into deeper spaces than the immediacy presents.

Our society evidences its own eidetic blindness by rarely mentioning the consistent manifestation of "daydreams" in specific locales. Lack of social acceptance and respect for eidetic space distinguishes our culture from those of the ancient past. This divergence explains the fundamental difference among our sciences. Quantitative Science relies upon eidetic perception. Quantitative science relies upon inertia limited perception.

The eidetic perceptual mode transforms us into truly sensing beings. Our willfully sustained reception and recognition of naturally available eidetic currents expands us into deeper space experience. This deeper world experience promotes increased world connectivity. With these come also the reciprocations; where percipient and perceived may modify one another directly. This is the very essence of natural magick; where eidetic cores are transmuted until their inertial shells conform.

The thoughts, visions, words, and ideas of eidetic currents are unrecognized and unappreciated as true nutrients. When we lack the fullness of eidetic currents we become despondent and ill: visionless and lifeless. There are those times when we so feel this flow within us that we cannot help but be suspended in its suffusive and buoyant tide.

These images do not preexist in the percipient brain. They are not encoded genetically in the percipient. Neurology is not predisposed to potentially react in patterned ways with external stimulations. Externality rules the aura. We receive the streams of external sources. These images are received as discharges which engulf, permeate, and entrain the percipient in auric parameters.

Physiology is entrained in the auric permeations; storing the auri-connective patterns as memories. Memories are not internalized sense regimes. Memories are re connections with original auric streams. The aura stores patterns which act as gateways for re infusions with external eidetic currents.

### WORLD PARTS

Termed "eidola" by ancient natural scientists, the auric projections from percipients and environments blend in sensual communion. This full experience is best observed in children. Theirs is an endless communion of wonder with these pulsating, connective auric sensations. The primary auric receptions are wonderful

and wordless beyond verbal description. The imaginal flood of wordless eidetic images entrains the percipient into experiential world connectivities.

Child participants are enthralled with the flood of auric sensations emanating from the viewed environment. The awestruck gaze of little children, completely absorbed with some simple object, speaks best of this thralldom. I have noted that growing children often look away for an instant at their parents, as if to ask "do you see this ... what is it?". These imaginal discharges are eidetic. These primitive images are perceived by all children and a few adults.

Such associational connective knowledge exceeds the understandings conveyed by linear language. Few of us manage to express our own memory of these childhood perceptions. They seem somehow to have been completely erased from our minds as if by some foul agency. When we do speak of them we do so as if referring to another person; as if we have been separated from our very deepest self. To lose the intimate experience is tragic; a tragedy we have all encountered. To re obtain the intensity and innocence of these dear first sensations some have resorted to extreme measures.

There is another aspect to sensations of this intensity which we encounter with growing age: sensations seem to become quenched almost immediately after initial reception; thoughts become muddled, emotions become muted, joy is dulled, and vitality ebbs. For these life negative experiential aspects there exists a familiar technology which has yet to blossom forth.

In this developmental phase the child learns each world part and glory. It is wonderful to realize that the mere glance of a child's eyes across the landscape will yield up an incoming flood of sensual auric discharges. These auric discharges exceed the sensual messages of ordinary reflected light. Certain auric emanations seem to be diversely affected by sunlight: either magnified or diminished.

The mere touch and stroke of the child's eyes is sufficient stimulation to endraw this auric flood from any object. The projective power of the aura through child eyes is anciently known. With maturation comes the development of language and its corresponding articulate thought patterns. The projective power of the voice assumes an equally projective degree as the does the oculo-auric projection; but the eye remains the single greatest auri-projective region of physiology.

Auric communal experience gradually reaches its maximum permeative effects in childhood. The child is in strong and permeative fusion with whatever is observed learning each world part as if it were the whole. Auric blending draws percipient and perceived together in mutually permeative relation. Children fuse during perception with that which is perceived. No distinction is made between self and object. The awestruck eyes of a child beholding a rose tells all.

### WORLD CONNECTIONS

There is an extremely important time period spanning late childhood and preceding the onset of adolescence where a new and distinct kind of auric emanation becomes manifest to us. Children in their later stages of development suddenly and spontaneously become sensitive to a very basic and holistic flood of images which proceed from the environment in discontinuous

discharges. These primitive associational images exceed the viewed objects and fulfill observational experience with communal participations.

The child percipient receives this wordless flood of associations and becomes fortunate participant in a deeper world language. The imaginal discharges entrain their recipients in the language of archetypes and articulations: the auric connectivity and ordained world structure. It is through this connectivity that child percipients are drawn out into greater world fusion. The cooperative and mutual interaction of percipient and perceived produces anomalous interactions between mind and environment all throughout life; and a few continue to doubt.

It is during this time that child percipients begin to wordlessly perceive the auric connectivity and extension of world parts into a deeper space. It is curious that most parents ignore this formative phenomenon, and that teachers contradict it. But the personal eidetic instruction during this developmental phase is wordlessly received despite the parenting and schooling; a tutelage which is spontaneous and graciously providential.

This portion of the developmental process of perception is often forgotten with age. With the exception of selected powerful moments of sublime joys, this time is swallowed up by the ravages of adolescence. The bright connective moments will remain throughout our lives. Personal comprehension of these deeper connectivities and wonders is sudden, holistic, complete; and wordless. The degree of this developmental phase determines the sensitivity of the individual for all time thereafter.

These primitive eidetic images are the wordless transactions of associational or connective knowledge; revealing the auri-connective world structure, and joining the percipient into communal relationships among world archetypes. Associational knowledge is the result of natural eidetic discharges emanating from (grounded) objects. It is very clear that grounded objects attract children with special power.

To the developing child then, the world parts are fragments of a complex world bas-relief which is infinite in depth, complexity, design, and function. This experiential information is communicated directly into the percipient aura through the auric projections of natural environment.

During this developmental phase children peer into an array of objects, see their functional connectivity to deeper environmental parts, comprehend their connectivity with the sky ... with the stars...discovering the wondrous connectivity of object layers.

Infants first experience the "one in the many". Late childhood experiences the "many in the one". Pre-adolescence begins to glimpse the many layers of relationships among objects ... where the dynamic functional energy is the eidetic connectivity itself. This is the developmental phase during which the individual potentially becomes a "sensitive". Unfortunately the appearance of adolescence confuses this continuous development with eido-disruptive influences. Individual become increasingly insensitive without the successful and continuous receipt of the natural eidetic currents.

### ANCIENT VISION

One remarkable fact concerning the eidetic phenomenon in experience is that each reception comes to us in whole form: as if each eidetic stream were pre-existent. Equal in importance to this



is the fact that eidetic currents cease operating along specific geographic directions. Percipients may demonstrate the directionality of specific eidetic currents by assuming specific geographic orientations. Eidetic experiences weaken when specific materials are placed between percipient and object.

Exposures to artwork stimulate eidetic reception and strong pattern memory. Memories are patterns of access whereby once-experienced eidetic currents can reenter our consciousness with or without a objective source. Specific materials, forms, and configurations project powerful eidetic currents into percipients.

One may return to a museum, visit a specific gallery therein, come upon an art-piece viewed many years before, and suddenly resume one's identical first-experience with the piece ... though years have passed between visits! So succinct will this experience be that one realizes no internal memory may be cited as a satisfying explanation.

One does not "remember" exact moods, thoughts, and sensations with such startling clarity across the years. The object-radiant eidetic currents contain all the perceptual information in a structured, external storage space. Percipients engage these external experiential currents through simple and personal interception.

Our society has become so traditionally insensitive to the simplest eidetic experience that we do not recognize its mysterious implications. We do not call attention to the startling reality of eidetic translation. We do not ponder the devastating changes which the eidetic phenomenon demands among the pathetic quantitative sciences. We have not studied or collated the numerous ancillary phenomena associated with eidetic translation. Dulled to these suffusive experiential familiarities, we have not the personal fund of awareness sufficient to teach their life-enlarging facts to our own children.

Ancient civilizations placed first importance on eidetic experience, mapped and described the eidetic spaces of their locales, and taught these truths to their children. Ancient science was founded entirely on the eidetic space experience; discovering that architectural devices magnify eidetic translations. Ancient science enlarged human experience beyond the inertial world ... into mind-expanding eidetic spaces (Pythagoras).

No natural science is complete without a collation of such material-attendant eidetic chorales. These observed portions often appear poetic and highly descriptive. Early Victorian Science evidenced greater poetic description, and was therefore more nearly a complete treatment of natural experience than early twentieth century quantitative science.

These conscious chorales are super-lingual: they transcend the linearity of human language, conveying an awareness which always transcends physical world realities and limitations. Conscious chorales are experienced before we have engaged sufficient world experience. They are therefore not the evocation of internalized memory or familiar associations. Consciousness is evoked well beyond any set of familiarities in transcendent experiences. These experiences of sense and ideation are therefore new and unfamiliar additions: projections from an external world.

If sensation of this eidetic kind is externally projected into our experience, then we must conclude that eidetic space is wholly "composed" of ideational streams and currents: a world of structured ideas. As these eidetic ideas are so consistently fixed to

specific objects and locales (and have effected changes which are later physically manifested) we must also conclude them to pre-exist these very items. Such a notion is exotic to modernists; who have placed all reality, sensation and perception within an "internal perceptive space".

Furthermore, if eidetic currents are projected into our beings to produce consciousness ... then where does our true identity and being reside? We may well ask whether any psychologist has identified daydream space. Psychology does not sufficiently discern between neurology and mind. The two are completely different things. Mind dwells in structured space and sustains neurology. The two are in a correspondence which determined by mind, by identity ... by the aura alone.

The ancient discovery of true self...the "ka, atma, nous..." describes the "inner eye" within us all. This inner eye merely observes and partakes of beautiful eidetic currents, being carried along by their inertia-freeing ascents. To remain in the eidetic-conscious state is yet considered blissful.

There are technological means which enable an effortless conscious transition from world fixation to eidetic communion. These radionic means utilize specific components in achieving personal eidetic entunement. The sustained eidetic experience is not an omniscient panorama lacking form, structure, order, and detail: it is not gaseous, aetheric, protoplasmic, or chaotic.

Pre-existent eidetic space is mappable. It is therefore orderly and structured. These were the notions with which ancient natural philosophy so pondered. Socrates, Platon, and Pythagoras each dealt with the eidetic space and its relationship with the physical world. The eidetic commonalities observed among different objects suggested to them that a fixed and pre-archaeozoic set of qualities was creatively interblended in infinite varieties. The qualities were experientially discerned.

Ancient science held that no objective rule can discern eidetic levels of reality, except for the human percipient. Percipients remain the best rule for discerning eidetic space. Percipients discern eidetic space through their experience. Ancient philosophers discovered that increased experiential acuity exercises the seeker into greater experiential degrees. Spiritual consciousness follows the focussed continuity of eidetic experience, and was prized beyond scientific value. Natural philosophy developed into spiritual pursuit.

Eidetic space projects experience into percipients. Eidetic space projects holistic form into the world. Ideas enshrine in inertial space, becoming "matter". Such matter is not degenerate. Such matter is a divine creation, an eidetic message which is encumbered by an inertia. Examined materials reveal surprisingly variant degrees of freedom or resistance to eidetic reception. There is a component, associated with matter, which resists and distorts the eidetic radiance of objects.

Inertia is more than a resistance to physical displacements in space. Inertia is resistance to eidetic projectivity among different materials. Ancient natural scientists recognized the inconsistencies among materials and their spaces, calling the resistance "ash". Inertial ash resists eidetic radiance, effecting changes in material behavior.

Certain materials are lustrous and certain are dull because the inertia resists the eidetic radiance. The ancient science of alchemy

deals expressly with eidetic radiances which materials emanate and interblend in combination. Ancient architects discovered that material configurations could magnify eidetic radiance, constructing remarkably time-resistant structures.

### **WORLD INFRASTRUCTURE**

Objects in the environment spontaneously project primitive associational images into percipients in pulsations. Specific groundpoints become isolated and marked by sensitive percipients as the focussed source of these projectively discharged images. Children are naturally drawn to the grounded places and experience wholeness during this ground referenced phase of development. Sensitives maintain or recapture this portion of development with strength.

We each learn that objects in their settings are interlocking parts of a vast world. The eidetic discharges teach children the connectivity of all things apparent. The vast world of connective related parts manifest connective roots in spaces approaching the nature of dreams. The collections of related objects appear to be parts of a vast and wonderful world structure anciently called the "Kraton": the all-holding one.

Few quantitative scientists ever observe the true transition of experience from things physical to things of dream (metaphysical). One peers into the starry depths and gradually loses physical focus; verging into flowing eidetic images. The same is true when we peer into the ground. At first the focus is physical. After a few second's gaze, we find that our experience has shifted into an eidetic flow of image and dream.

World experience is a double impression: composed of an apparent reality which is inertial and an infrastructure which is ideational. The apparent space is inertial. This inertial space is static. The eidetic space is dynamic: a complexly structured flow of innumerable, separate, interblending thought currents which flood the world. These two spaces (inertial and ideational) together compose "experience".

### **EIDETIC SPACE AND GROUND**

Eidetic currents produce conscious chorales. Those who enter the eidetic space frame are actually peering deeper into the objects of the immediate surroundings ... but what are they receiving? In what specific manner do eidetic currents flow through rigid inertial surroundings?

Eidetic space permeates and suffuses the physical world. The apparent space is inertialized and rigid, holding second place to the flow of eidetic currents through our being. Many persons ignore this eidetic flow as a noisy distraction. Careful examination reveals that the eidetic flow carries and sustains us by its thought vision content. As adults we recall experiences where we have been "carried along" by a pleasurable idea flow which was impossible to escape.

Qualitative scientists recognize any "new and sudden" perceptions as alien to themselves and connected with environmental sources. These sources are usually specific ground connected objects. The sensitive perceptual observer can map out the specific projective angles of any such grounded objects by simply walking around it. Sense dull and sense strong points can be isolated and marked.

Distal projections from active objects and their groundpoints effect perceptions. These projected perceptions include: thoughts, forms, moods, visions, bilocations. Projected perceptions which are primarily emotional are termed "visceral". The sum of such impressions are termed "eidetic" when their primary composition is visual. Eidetic currents produce perceptive streams.

The aura represents the scientific "missing link" between measurable and experiential realities. Experience is participation in eidetic currents whose nature is continuous (Drown). What we sense is real, continuous across space, and connective. We are aurically connected with that which we perceive. These auric sensual connections are thready rays which flow among percipients and perceived (Abrams, Kilner, Hieronymus, Drown).

The sensual content of auric threads is space continuous ... connective extensions of sensual natures capable of being experienced at any point along the connective route. Immediate and inertia limited perception requires light. Penetrating auric perception requires no extra light (Reichenbach).

Auric threads connect groundpoints and percipients, producing eidetic bilocations. Human beings are dulled to this level of their experience, not really recognizing the startling import of the numerous eidetic images which flood their perceptions each moment. The eidetic flood is endless.

The environment discharges primary connective auric emanations into percipients. Perception lines contain diverse energies. Some of these energies are purely inertial in content (Newton). Other fractions provide perceptual connective varieties (Goethe, Kilner). Yet other varieties contain proportioned mixtures of inertial and perceptual content (LeBon, Blondlot, Tesla, Hieronymus).

The personal world consolidating development (parts to wholes) takes place as the child absorbs each silent eidetic lesson of latter childhood, becoming familiar with eidetic currents. Children may glimpse the Kratonic depths in fantasy games concerning the subterranean depths of earth. Children during this phase become extremely ground-fascinated. During this phase of development children will frequently "talk to themselves" about their received perceptions. It is not uncommon for them to elaborate in personal mythologies concerning the world parts as they are learning and absorbing eidetic currents.

When social pressures on children are excessive the eidetic developmental process is inhibited. Children then become "hardened" and experience difficulty in flowing naturally with their environment. Through excessive world contact adults are more complexly disorganized. Strong and freely experienced eidetic communions in childhood develop into the eidetic acuity in adulthood which produces spiritual sensitives.

There comes a developmental stage where the child percipient begins to receive sudden and strange eidetic images from environmental objects and scenes which are alien from the immediate locale. These impressions lucidly appear in dreams and fantasies, and are received when auric projections permeate the percipient with strength. They are not frightening, and continue to appear whenever the percipient frequents the source locale. These eidetic impressions last for life, coloring the visited locales despite time. They are bilocal experiences, evidencing the natural eidetic ground structure of experience.

It was in this reality that ancient science developed its experience validating world models. It is in this experience that we may again delve into a greater, albeit forgotten world ... realizing the facts concerning reality, world structure, and future technology.

Progressive absorption into experiential space reveals its real depth; in metaphysical dimensions. One cannot gaze long into space without experiencing the immediate translation ... beyond the viewed physical objects and into the eidetic structures streaming there. One cannot gaze into the ground very long before a similar, though distinctive, eidetic streams are experienced. It is more than coincidental that these received eidetic streams match those revered and enjoyed by ancient scientists.

Ancient science was not a "knowing about" the world (gnosis) which the modernists crave. Ancient science was knowing the world ... communing with it directly (epignosis). Such intimate communion is not possible through the narrow channel afforded by observing physical objects alone. One must open and permit the freeflow of

imagination when examining the world of solids; only then can true world communion be achieved.

The true scientific future of belongs to the qualitative examiner, who is not concerned with examining the vacuous depth of physico-inertial worlds ... but with examining the forgotten geography of eidetic worlds. The science of radionics supplies the newest technological expression for magnifying the eidetic experience. Radionic ground tuners reveal the true world-structure to operators who are coupled directly with the components. Such designs release undreamed eidic potentials to the sensitive operator. ■

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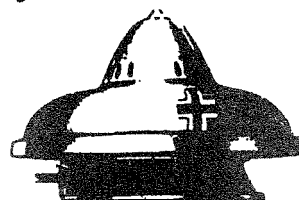


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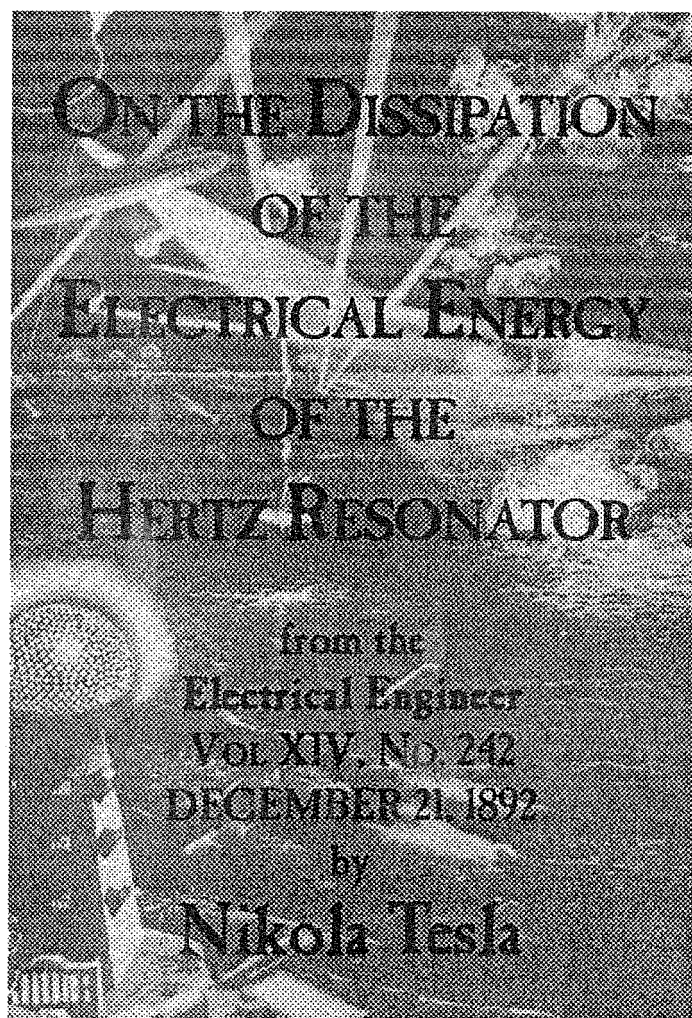
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ANYONE who, like myself, has had the pleasure of witnessing the beautiful demonstrations with vibrating diaphragms which Prof. Bjerknes, exhibited in person at the Paris EXPEDITION in 1898, must have admired his ability and painstaking care to such a degree, as to have an almost implicit faith in the correctness of observations made by him. His

experiments "On the Dissipation of the Electrical Energy of the Hertz Resonator," which are described in the issue of Dec. 14, of *The Electrical Engineer*, are prepared in the same ingenious and skillful manner, and the conclusions drawn from them are all the more interesting as they agree with the theories put forth by the most advanced thinkers. There can not be the slightest doubt as to the truth of these conclusions, yet the statements which follow may serve to explain in part the results arrived at in a different manner; and with this object in view I venture to call attention to a condition with which, in investigations such as those of Prof. Bjerknes, the experimenter is confronted.

The apparatus, oscillator and resonator, being immersed in air, or other discontinuous medium, there occurs — as I have pointed out in the description of my recent experiments before the English

and French scientific societies — dissipation of energy by what I think might be appropriately called *electric sound-waves of electrified air*. In Prof. Bjerknes' experiments principally this dissipation in the resonator need be considered, though the sound-waves — if this term be permitted — which emanate from the surfaces at the oscillator may considerably affect the observations made at some distance from the latter. Owing to this dissipation the period of vibration of an air-condenser can not be accurately determined, and I have already drawn attention to this important fact.

These waves are propagated at right angles from the charged surfaces when their charges are alternated, and dissipation occurs, even if the surfaces are covered with thick and excellent insulation. Assuming that the "charge" imparted to a molecule or atom either by direct contact or inductively is proportionate to the electric density of the surface, the dissipation should be proportionate to the square of the density and to the number of waves per second. The above assumption, it should be stated, does not agree with some observation from which it appeared that an atom can not take but a certain maximum charge; hence, the charge imparted may be practically independent of the density of the surface, but this is immaterial for the present consideration. This and other points will be decided when accurate quantitative determinations, which are as yet wanting, shall be made. At present it appears certain from experiment with high frequency currents, that this dissipation of energy from a wire, for instance, is not very far from being proportionate to the frequency of the alternations, and increases very rapidly when the diameter of the wire is made exceedingly small. On the latter point the recently published results of Prof. Ayrton and H. Kilgour on "The Thermal Emissivity of Thin Wires in Air" throw a curious light. Exceedingly thin wires are capable of dissipating a comparatively very great amount of energy by the agitation of the surrounding air, when they are connected to a source of rapidly alternating potential. So in the experiment cited, a thin hot wire is found to be capable of emitting an extraordinarily great amount of heat, especially at elevated temperatures. In the case of a hot wire it must of course be assumed that the increased emissivity is due to the more rapid convection and not, to any appreciable degree, to an increased radiation. Were the latter demonstrated, it would show that a wire, made hot by the application of heat in ordinary ways, behaves in some respects like one, the charge of which is rapidly alternated the dissipation of energy per unit of surface kept at a certain temperature depending on the curvature of the surface. I do not recall any record of experiments intended to demonstrate this, yet this effect, though probably very small, should certainly be looked for.

A number of observations showing the peculiarity of very thin wires were made in the course of my experiments. I noted, for instance, that in the well-known Crookes instrument the mica vanes are repelled with comparatively greater force when the incandescent platinum wire is exceedingly thin. This observation enabled me to produce the spin of such vanes mounted in a vacuum tube when the latter was placed in an alternating electrostatic field. This however does not prove anything in regard to radiation, as in a highly exhausted vessel the phenomena are principally due to molecular bombardment or convection.

When I first undertook to produce the incandescence of a wire enclosed in a bulb, by connecting it to only *one* of the terminals of



a high tension transformer, I could not succeed for a long time. On one occasion I had mounted in a bulb a thin platinum wire, but my apparatus was not adequate to produce the incandescence. I made other bulbs, reducing the length of the wire to a small fraction; still I did not succeed. It then occurred to me that it would be desirable to have the surface of the wire as large as possible, yet the bulk small, and I provided a bulb with an exceedingly thin wire of a bulk about equal to that of the short but much thicker wire. On turning the current on the bulb the wire was instantly fused. A series of subsequent experiments showed, that when the diameter of the wire was exceedingly small, considerably more energy would be dissipated per unit surface at all degrees of exhaustion that was to be expected, even on the assumption that the energy given off was in proportion to the square of the electric density. There is likewise evidence which, though not possessing the certainty of an accurate quantitative determination, is nevertheless reliable because it is the result of a great many observations, namely, that with the increase of the density the dissipation is more rapid for thin than for thick wires.

The effects noted in exhausted vessels with high frequency currents are merely diminished in degree when the air is at ordinary pressure but heating and dissipation occur, as I have demonstrated, under the ordinary atmospheric conditions. Two very thin wires attached to the terminals of a high-frequency coil are capable of giving off an appreciable amount of energy. When the density is very great, the temperature of the wires may be perceptibly raised, and in such case probably the greater portion of the energy which is dissipated *owing to the presence of a discontinuous medium* is transformed into heat at the surface or in close proximity to the wires. Such heating could not occur in a medium possessing either of the two qualities, namely, perfect incompressibility or perfect elasticity. In fluid insulators, such as oils, though they are far from being perfectly incompressible or elastic to electric displacement, the heating is much smaller because of the continuity of the fluid.

When the electric density of the wire surfaces is small, there is no appreciable local heating, nevertheless energy is dissipated in air by waves, which differ from ordinary sound waves only because the air is electrified. These waves are especially conspicuous when the discharges of a powerful battery are directed through a short and thick metal bar, the number of discharges per second being very small. The experimenter may feel the impact of the air at a distance of six feet or more from the bar, especially if he takes the precaution to sprinkle the face or hands with ether. These waves cannot be entirely stopped by the interposition of an insulated metal plate.

Most of the striking phenomena of mechanical displacement, sound, heat and light which have been observed, imply the presence of a medium of a gaseous structure, that is, one consisting of independent carriers capable of free motion.

When a glass plate is placed near a condenser the charge of which is alternated, the plate emits a sound. This sound is due to the rhythmical impact of the air against the plate. I have also found that the ringing of a condenser, first noted by Sir William Thomson, is due to the presence of the air between or near the charged surfaces.

When a disruptive discharge coil is immersed in oil contained

in a tank, it is observed that the surface of the oil is agitated. This may be thought to be due to the displacements produced in the oil by the changing stresses, but such is not the case. It is the air above the oil which is agitated and causes the motion of the latter; the oil itself would remain at rest. The displacements produced in it by changing electrostatic stresses are insignificant; to such stresses it may be said to be compressible to but a very small degree. The action of the air is shown in a curious manner for if a pointed metal bar is taken in the hand and held with the point close to the oil, a hole two inches deep is formed in the oil by the molecules of the air, which are violently projected from the point.

The preceding statement may have a general bearing upon investigations in which currents of high frequency and potential are made use of, but they also have a more direct bearing upon the experiments of Prof. Bjerknes which are here considered, namely, the "skin effect," is increased by the action of the air. Imagine a wire immersed in a medium, the conductivity of which would be some function of the frequency and potential difference but such, that the conductivity increased when either or both of these elements are increased. In such a medium, the higher the frequency and potential difference, the greater will be the current which will find its way through the surrounding medium, and the smaller the part which will pass through the central portion of the wire. In the case of a wire immersed in air and traversed by a high-frequency current, the facility with which the energy is dissipated may be considered as the equivalent of the conductivity; and the analogy would be quite complete, were it not that besides the air another medium is present, the total dissipation being merely modified by the presence of the air to an extent as yet not ascertained. Nevertheless, I have sufficient evidence to draw the conclusion, that the results obtained by Prof. Bjerknes are affected by the presence of air in the following manner:

1. The dissipation of energy is more rapid when the resonator is immersed in air than it would be in a practically continuous medium, for instance oil.

2. The dissipation owing to the presence of air renders the difference between magnetic and non-magnetic metal more striking.

The first conclusion follows directly from the preceding remarks; the second follows from the two facts that the resonator receives always the same amount of energy, independent of the nature of the metal, and that the magnetism of the metal increases the impedance of the circuit. A resonator of magnetic metal behaves virtually as though its circuit were longer. There is a greater potential difference set up per unit of length, although this may not show itself in the deflection of the electrometer owing to the lateral dissipation. The effect of the increased impedance is strikingly illustrated in the two experiments of Prof. Bjerknes when copper is deposited upon an iron wire, and next iron upon a copper wire. Considerable thickness of copper deposit was required in the former experiment but very little thickness of iron in the latter, as should be expected.

Taking the above views, I believe, that in the experiment of Prof. Bjerknes which lead him to undoubtedly correct conclusion, the air is a factor fully as important, if not more so, than the resistance of the metals. ■

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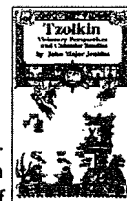
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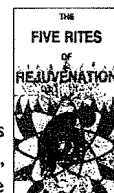
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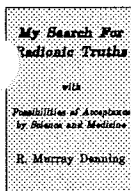
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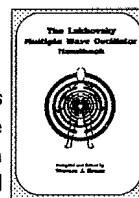


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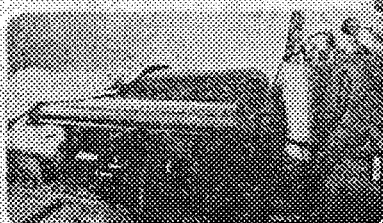
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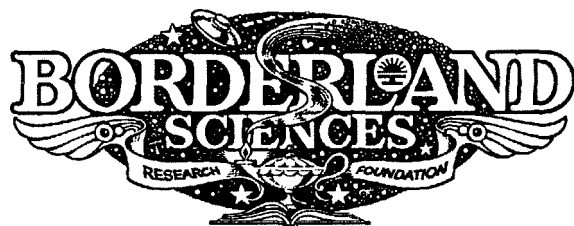
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